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INDEX

PAGE

Abbott Scholarships 203
Academic Year 101, 102, 103
Accountancy, Courses in 160, 375, 384
  Diploma of Licentiate in 381
  For Matriculation 160
  For Law 610
Accountancy Diploma Course 375–382
  Fees 385
Accounting and Auditing 375, 376, 380, 381
Accounting, Elements of 374
Accounts, Theory and Practice of 367
Adams (F.D.) Scholarship 210
Administration in Schools of Nursing 861
Administration and Supervision in Public Health Nursing 861
Administrative Law 611
Administrative Officers 3, 109, 237, 353, 405
485, 563, 603, 735
803, 829, 853, 894
Admission, Age of 118
Admission to the University 91
Admission, Application for 118, 241, 855
Admission to:—
  Agriculture 882
  Architecture 114, 407
  Arts and Science 112, 138, 158–9, 240, 241, 242
  Commerce 118, 155, 355
  Dentistry 563
  Engineering 114, 159, 407
  Faculties and Schools 112
  Graduate Nurses, School for 854
  Graduate Studies 739
  Law 603
  Admission to the Legal Professions in Quebec 612
  Library School 804
  Macdonald College 882
  Medicine 487
  Music 644
  Physical Education 830
  Professional Faculties 121
  Royal Victoria College 95
  School for Teachers 882
  Study and Practice of Law in Quebec 612
  Study and Practice of Medicine 495
  Upper Years 117, 242, 355

356108

PAGE

Advanced Courses in Arts and Science 120, 252
Advanced Standing in Engineering for Graduates in Arts and Science 412
Advancement to Regular Standing in Arts and Science 246
Advisers 120, 243, 356
Affiliated Colleges 890
Affiliated Colleges in Engineering 411
Affiliated Theological Colleges 88
Affiliated Theological Colleges Scholarships 181
Affiliation with other Universities 89
Age of Admission 118, 241
Agricultural Bacteriology 757
Agriculture, Faculty of 115, 882
Agronomy, Graduate Courses in 754
Alexander, Charles, Scholarship 187
Alexandra Hospital 529
Alexandra Hospital Scholarship 218
Algebra 152, 166
Allan (Dr. J. H. B.) Scholarship 212
Allan (Margaret Jane) Scholarship 187
Alliance Francaise Medals 190, 980
Allied Nations Bursaries 185
Alpha Omega Alpha Society 532
Alumnae Society Bursaries and Loans 194
American Society of Metals Prize 198
American Students 92
Anatomy, Courses in Arts and Science 263
" " " Dentistry 569
" " " Graduate Faculty 755
" " " Medicine 497, 498
" Dental 576
" Department of 263
Anæsthesia 516, 574
Ancient History 275
Anglin Bursary 199
Anglin-Norcross Prizes 196
Application Forms 91, 117, 118, 241, 855, 966
Applied Mechanics 440
Approved Lodgings. *See Board and Lodging.*
Architecture:—
Admission to 407
Department and Courses 417
School of 114, 436
Summer Work in 432
Arts and Science, Faculty of 112, 118, 233–320
Associate in Music, Diploma of 668

	Page
Associate Committee on Parasitology	8, 895
Association of Registered Nurses Scholarship	218
Athletics Board, University	12
Attendance, Rules Regarding	120, 245, 356, 410 804, 900, 901, 913
Bachelor of Arts, Engineering, etc. *See Degrees, Regulations for*	
Bacteriology, Courses in Arts and Science	263
" " " Dentistry	570
" " " Graduate Faculty	756
" " " Medicine	502
" Department of	263
Ballon (Ellen) Piano Scholarships	206
Banking and Exchange, Course in	383
Bar Regulations, Province of Quebec	612
Barclay Scholarship	188
Baylis Scholarship	199
Beatty (Sir Edward) Medal	195
Beatty (Sir Edward) Scholarships	178
Bedford Graduates' Society's Scholarship	180
Biochemistry, Courses in Arts and Science	265
" " " Dentistry	572
" " " Graduate Faculty	757
" " " Medicine	500
" Department of	265
Biological Building	527
Biological Subjects, Honours B.Sc. in	260
Biology	140, 161, 260, 261
Bnai Brith Bursaries	183, 194
Board of Governors	5, 888
Board and Residence	94, 95, 858, 899, 902, 905
Douglas Hall	94
Royal Victoria College	95
Botany, Courses in Arts and Science	266
" " " Graduate Faculty	757
" Department of	266
" Matriculation	142
Botany Prizes	192
British Association Prizes	196
British Association Medal	200
British Students	91
British Council Scholarships	207
Browne (A. A.) Fellowship	211
Bruce (Robert) Bursary	179
Bruce (Robert) Scholarships	170, 180
Bruck (Isaac) Scholarship	194
Buildings, Medical	526

PAGE

Bursaries. *See Scholarships* 117, 121, 175
Business Organization, Course in 369
Busteed (Edwin Botsford) Scholarship 213, 606

Calendar 102, 103, 104, 640
Canadian Institute of Mining and Metallurgy Loan Fund 201
" " " " Medal 200
" " " " Prizes 197
Canadian Officers' Training Corps 994
Canadian Pacific Railway Company's Scholarships 180
Carpenter (Philip) Fellowship 209
Casgrain & Charbonneau Award 212
Caution Money 98, 905
Certificates Recognized 136, 157, 408, 855
Chancellor's Medal 195
Changing Courses 243
Chapman (Henry) Gold Medal 190
Chapman (Henry) Prize 191
Chartered Accountants, Course for 362
Chartered Accountants' Course Fees 385
Chemical Engineering, Curriculum 420
Chemical Industry Society's Prize 198
Chemistry, Courses in Arts and Science 269
" " " Commerce 373
" " " Engineering 437
" " " Graduate Faculty 758
" " " " " Macdonald College 762
" Department of 269
" Matriculation 143, 163
Cherry Prize 191
Children's Memorial Hospital 529
Children's Memorial Hospital Scholarship 218
Christie-Storer Chapter Scholarship 181
C-I-L Fellowship 216
Civil Engineering, Curriculum 440
Department and Courses 422
Civil Engineering, Graduate Courses in 763
Civil Law 610, 611
Civil Procedure 611
Civil Servants, Concessions for 745
Class of 1899 Fund 201
Class of 1916 Cup 217
Class of 1925 Shield 217
Classes of Students 119, 240, 644, 739
Classics, Courses in Arts and Science 272
" " " Graduate Faculty 764
" Department of 272

	PAGE
Classification of Marks in:—	
Arts and Science	246
Accountancy Diploma Course	378
Commerce	357
Dentistry	568
Engineering	414
Graduate Faculty	745
Law	608
Medicine	494
Nurses, School for Graduate	837
Clinical Instruction in Dentistry	574, 580
Cognate Subjects	745
College of Dental Surgeons of Quebec Prize	202, 566
Colleges (Affiliated)	88, 89, 411
Colleges (Incorporated)	88
Commerce, School of	112, 118, 353–386
Commercial Law	370, 377, 611
Commercial Society Loan Fund	195, 358
Committees of Faculties	13–14, 238, 353, 405 735, 853
Committees of Governors and Senate	7–12
Comparative Law	612
Comparative Philology	764
Conflict of Laws, Course in	612
Conservatorium of Music. *See Faculty of Music.*	
Constitution of the University	87
Constitutional Law	610, 611
Continuation Subjects	249, 258
Cooper (James) Endowment	212
Co-ordinate Geometry	166
Corporation of Professional Engineers, Bursary of	200
Corporation of Public Accountants	363
Cost Accounting	380, 381
Cost of Education. *See Expenses.*	
Courses for Degrees and Diplomas. *See Degrees, Regulations for and Diplomas, Regulations for*	
Criminal Law and Procedure	610
Crossley (Ethelwyn M.) Scholarship	217
Daly, Marion McCall, Prize	192
Dates for Session 1943-44	101, 102, 103
Dawson (Sir William) Scholarship	188, 198
Dawson (Sir William) Fellowship	210
Degrees Granted by the University	112, 117
Degrees in Arts and Science	120, 249
Degrees in Engineering	412
Degrees in Graduate Faculty	740

PAGE

Degrees, Regulations for:—
Bachelor of Architecture 416
" " Arts 250, 253, 254, 263
" " B.A., M.D 244
" " Civil Law 607
" " Commerce 359
" " Engineering 412
" " Household Science 882
" " Library Science 804
" " Music 648
" " Science 256, 257, 263
" " B.Sc., M.D 244
" " Science in Agriculture 882
Doctor of Civil Law 607, 751
" " Dental Surgery 567, 568
" " Literature 751
" " Medicine 481, 495
" " Music 751
" " Philosophy 748
" " Science 751
Master of Arts 740, 746
" " Civil Law 607, 740, 748
" " Commerce 360, 740, 748
" " Engineering 740, 747
" " Science 740, 747
Delta Phi Epsilon Sorority Bursary 189
Delta Upsilon Scholarship 207
Demonstratorships 207
Dental Anatomy 576
Dental Council, Dominion 565
Dental History, Ethics and Office Management 575
Dental Instruments 566
Dental Jurisprudence 575
Dental Metallurgy 575
Dental Pathology 572
Dental Surgeons of the Province of Quebec, (College of) Prize 204, 566
Dental Surgery 574
Dentistry, Faculty of 115, 563–580
Requirements for Licence to Practice 564
Requirements for Degree 568
Lectures in 569
Prizes 204, 566
Dermatology 509
Descriptive Geometry 442
Diet and Nutrition 571
Diocesan College 89

	PAGE
Diplomas, Regulations for	
Diploma for Graduate Nurses	854
" of Licentiate in Accountancy	361, 379, 381
" " Associate in Music	668
" " Licentiate in Music	651
" " Agriculture	882
" " Physical Education	830, 833
" " Public Health	525
" " Veterinary Public Health	526
Directory of Staff	3–58
Discipline	410
Distinction in General Course in Arts and Science	249
Dominion Dental Council	565
Dominion Government Loans	185
Dominion Provincial Bursaries	183
Dominion Registration for Medical Students	496
Douglas (Dr. James) Fellowship in Mining Engineering	210
Douglas (Dr. James) Fellowship in Pathology	211
Douglas (Dr. James) Tutorial Bursaries	199
Drake (Joseph Morley) Prize	202
Drawing and Descriptive Geometry	442
Drawing, for Matriculation	144
Drummond (Guy) Memorial Scholarship	209
Economics, Courses in Accountants' Course	377
" " " Arts and Science	276
" " " Commerce	365
" " " Engineering	445
" " " Graduate Faculty	766
Economics, Department of	276
" Courses in Arts and Science	276
" " " Graduate Faculty	765
" Department of	276
Education	278
Education in the Graduate Faculty	766
Elder (John Munro) Prize	202
Electrical Engineering, Curriculum	446
Department and Courses	423
Graduate Courses in	766
Embryology	498
Emeritus Professors	16
Endocrinology	525, 801
Engineering Curriculum	415
Engineering, Faculty of	114
Engineering Courses	416
Engineering Institute of Canada Prizes	197
Engineering Law	445
Engineering Physics	262, 456

	PAGE
Engineering Practice	445
Engineering Societies	414
Engineering Undergraduate Society's Prize	196
English, Courses in Arts and Science	280
" " " Commerce	369
" " " Graduate Faculty	768
" Department of	280
" Matriculation	145, 163
Entomology, Graduate Courses in	771
Entrance Examinations	135, 153
Entrance Requirements	91, 112, 138 154, 240, 355 407, 487, 563 603, 644, 739 804, 830, 854 882
Entrance Bursaries	177, 178
Entrance Scholarships	177, 178
Equivalent Standing in Medicine	487
Essay, Graduating, in Law	609
Essays, Engineering	431
Ethnological Museum	992
Evans (Nevil Norton) Scholarship	199
Evidence, Course in	611
Examination, Medical	409, 805
Examinations, Entrance	135, 153
Examinations in:—	
Arts and Science	245, 246
Accountancy Diploma Course	378
Commerce	357
Dentistry	568
Engineering	413
Graduate Nurses, School for	857
Graduate Studies	745
Law	608
Medicine	492
Music	649
Physical Education, School of	832
Exhibition of 1851 Scholarships	213
Expenses—Approximate total cost	99
In Graduate Nurses, School for	858
Experimental Medicine and Surgery, Graduate Courses in	772
Faculties and Schools	112, 320

PAGE

Faculty of Agriculture ... 115, 882
" " Arts and Science ... 112, 118, 233–320
" " Dentistry ... 115, 563–580
" " Engineering ... 114, 403–462
" " Graduate Studies and Research ... 115, 733–801, 945
" " Law ... 113, 603–612
" " Medicine ... 112, 483–532
" " Music ... 115, 633–722

Fairley (Grace) Trafalgar Scholarship ... 181
Fantham Memorial Prize in Zoology ... 191
Farrand (Narcissa) Scholarship ... 181
Fees ... 96, 97, 98
Remission of ... 99

Fees for Matriculation Examinations ... 133
Fees in Accountancy Course ... 385
" " Agriculture ... 883
" " Arts and Science ... 247
" " Commerce ... 357
" " Dentistry ... 565
" " Engineering ... 410
" " Graduate Nurses, School for ... 857
" " Graduate Faculty ... 741
" " Household Science ... 904
" " Law ... 604, 605
" " Library School ... 97
" " Medicine ... 489
" " Music ... 645
" " Physical Education ... 832
" " Royal Victoria College ... 96
" " School for Teachers ... 883
Fellowships ... 205, 495

Field Schools:—
In Engineering ... 430
In Metallurgy ... 457
In Mining ... 452
In Surveying ... 458
Forbes (Mildred Hope) Memorial Scholarship ... 218
Forsyth (Dora) Prize ... 191
Forsyth (Robert) Prizes ... 198, 202
Foundation of the University ... 87
Of Macdonald College ... 889
Of the Royal Victoria College ... 95
Fourth Year Scholarships in Arts and Science ... 189
French, Courses in Arts and Science ... 285
" " " Commerce ... 369
" " " Graduate Faculty ... 773

	Page
French, Department of	285
" Matriculation	145, 164
" for Law	604
French Summer School	117, 774
French Summer School Scholarships	207
Frost (George Henry) Loan Fund	201
Functional Biology, Honours B.Sc. in	261
Garrow (Dr.) Scholarship	218
General Announcement	105–123
General Council of Medical Education	496
General Courses for B.A.	250, 253
General Courses for B.Sc	256, 257
General Degrees	120
General Information	91–103
Genetics, Courses in Arts and Science	288
" Courses in Graduate Faculty	776
" Department of	288
Geodesy	458
Geography	146
Geological Sciences, Courses in Arts and Science	289
" " " " Engineering	445
" " " " Graduate Faculty	777
" " Department of	289
Geometry, Matriculation	152
Geometry, Descriptive	445
German—For Matriculation	147, 164
German, Courses in Arts and Science	290
" " " " Commerce	370
" " " " Graduate Faculty	779
" Department of	290
" Matriculation	147, 164
Governing Body	5
Government of the University	87
Governor-General's Gold Medal	190
Governor-General's Silver Medal	190
Governors, Board of	5
Graduate Courses in Medicine	525
Graduate Fellowships	207, 216
Graduate Nurses, School for	116, 853–866
Graduate Students' Association	743
Graduate Studies and Research, Faculty of	115
Graduates' Society	15
Graduating Essay in Law	609
Grant, Provincial Government	909, 968

	Page
Greek, Courses in Arts and Science	272
" " " Graduate Faculty	765
" Matriculation	148, 164
Gynæcology	519
Harrington (Dr. B. J.) Bursary	210
Health Service	92, 93, 409, 490
Hersey (Mabel F.) Scholarship	218
Hersey (Dr. Milton L.) Prize	197
High School Diploma	248, 278
Higher Degrees. *See Graduate Studies and Research.*	
Higher Diploma in Physical Education	830
Hils (Joseph) Prize	202
Histology and Embryology	263, 498
Historical Society's Prize	192
History, Ancient	275
History, Courses in Arts and Science	293
" " " Commerce	370
" " " Graduate Faculty	779
" Department of	293
" Matriculation	148, 165
" of the Royal Victoria College	95
" of the University	87, 111
Hoare (Walter J.) Scholarship	203
Hodgson (Madelene) Prize	192
Hodgson (Sidney J.) Scholarships	180
Holmes Gold Medal	201
Homoeopathic Hospital of Montreal Scholarship	219
Honour Courses for B.A	250, 254
For B.Sc	256, 259, 260, 261
Honour Degrees	120
Horner Bursary	203
Hospitals	528
Household Science, School of	882
Houston Scholarship	188
Howard (Campbell) Prize	203
Hunt (Dr. T. Sterry) Scholarship	210
Hurlbatt (Ethel) Scholarship	193
Hutchinson (Blanche) Research Fund	212
Hygiene, Courses in	505
Immigration	91
Immunity. *See Bacteriology.*	
INCO, Scholarships	216
I.O.D.E. Bursary in Agriculture	206
I.O.D.E. Bursary in the School for Teachers	206
I.O.D.E. Scholarships (Post Graduate)	215

	Page
Incorporated Colleges	88
Industrial Relations, Course in	370
Industrial Management	381
Inquiries	91
Institute of Endocrinology	525, 801
Institute of Radio Engineers Prize	198
Instructorships	207
Instruments, Dental	566
Insurance, Course in	370
Interim Tests	252
International Law, Course in	610
Jackson (Slater) Prize	202
Jacobs (Joseph H.) Prize	195
Jenkins Brothers' Scholarship	199
Jewish Women (Local Council of) Scholarship	194
Johnson (Phelps) Prize	197
Jones (Hon. Robert) Bursary	179, 193
Joseph (Ethel Walkem) Prize	192
Junior School Certificate Examination	135
Jurisprudence, Dental	575
Kellogg Loan Fund	203, 204, 219
Ker, Frederick Southam, Bursary	183
Khaki University and Y.M.C.A. Memorial Scholarship Fund	184
Laboratories	800
Language Examinations (Ph.D.)	750
Latin, Courses in Arts and Science	274
" " " Graduate Faculty	765
" Matriculation	150, 166
Law (Clara) Fellowship	211
Law for Engineers	445
Law, Faculty of	113, 603–612
Law in the Faculty of Arts and Science	296
Law in the School of Commerce	371
Lectures in:—	
Architecture	436
Arts and Science	263
Commerce	366
Dentistry	569
Engineering	415
Graduate Nurses, School for	859, 866
Graduate Faculty	755
Law	610
Medicine	497
Music	639
Physical Education	833

	Page
Legal History, Course in	611
Legislation, Industrial	381
Leonard Foundation Scholarships	184
LeRoy Fellowship	210
Libraries, Local	800
Library, Dental	580
Library, Law	607
Library, Medical	530
Library, Museum	992
Library, Osler	531
Library School	116, 803
Library, The University	991
Licence Requirements in Dentistry	564
" " " Medicine	495
Licentiate in Accountancy, Diploma of	362
Licentiate in Music, Diploma of	651
Lieutenant-Governor's Medals	190, 195, 200, 202, 204, 217
Limited Undergraduates	119, 240
Loan Funds	176, 186
General Statement	176
In Commerce	195
In Engineering	196
In the Royal Victoria College	193
Loans	176, 186
University Loan Fund	176, 186
Local Centres, Music	676
Lodgings. *See Board and Residence.*	
Logan Bursaries	193
Logan Gold Medal	190
Lyman (Hannah Willard) Scholarship	189
McCall (James Darling) Scholarship	189
McCord National Museum	992
McCrae (John) Fellowship	211
Macdonald College	882
Graduate Students	740
Macdonald College Alumni Association Scholarship	213
Macdonald (Sir William) Scholarships	187
Macdonald (Sir William) Entrance Scholarships	178
Macdonald (Sir William) Memorial Scholarship in Music	205
Macdonald (Sir William) Travelling Scholarship in Law	212, 605
Macfarlane (Frederica Campbell) Scholarship	204
McGill College	112
McGill, (Women Associates of) Bursary	184
Macintosh (Annie) Prize	191

PAGE

MacKay (H. M.) Memorial Scholarship 199
Mackenzie (Alexander) Fellowship 209
Mackenzie Scholarships 190
McLennan (Hugh) Memorial Scholarship 211
Macnaghten (Chester) Prize 185
MacRae (Isabella) Scholarship 181
Mailhiot (Adolphe) Prize 205, 606
Major and Minor Subjects in the Faculty of Graduate Studies 744
Marceau (Ernest) Prize 197
Marks, Classification of 120, 246, 357, 414, 494, 608, 745
Marine Insurance 370
Maritime Law 611
Master of Arts, Engineering, etc. *See Degrees, Regulations for.*
Mathematics, Courses in Accountants' Course 377
" " " Arts and Science 296
" " " Commerce 371
" " " Engineering 446
" " " Graduate Faculty 782
" Department of 296
" Matriculation 151, 166

Matriculation:—
Junior School Certificate 133, 135
Senior School Certificate 133, 153

Mechanical Engineering, Curriculum 448
Department and Courses 425
Graduate Courses in 783

Medals in Arts and Science 190, 248
" " Commerce 194
" " Dentistry 204, 566
" " Engineering 200
" " Gymnastics 217
" " Law 205, 605
" " Macdonald College 977–983
" " Medicine 201, 495
" " School of Physical Education 217
Medical Building 526
Medical Council Registrars 496, 497
Medical Examination 92, 409, 805
Medical Library 530
Medical Societies 531
Medicine, Courses in 497
Medicine, Courses in (Dentistry) 571
Medicine, Department of 508
Medicine, Faculty of 112, 483–532
Regulations 490
Medicine, Requirements for Licence to Practise 495

PAGE

Members of Staff ... 3–58
Graduate Faculty ... 736
Faculty of Music ... 636
On Active Service ... 56
Metallurgical Engineering, Curriculum ... 456
Courses ... 426
Department ... 426
Field School ... 457
Graduate Courses in ... 785
Metallurgy (Dental) ... 575
Microscopes ... 490
Microscopic Anatomy. *See Anatomy.*
Military Training ... 994
Mills (Major Hiram) Gold Medal ... 190
Mills (Major Hiram) Scholarship ... 188
Mineralogy, Courses in Arts and Science ... 289
" " " Engineering ... 446
Mining and Metallurgical Engineering, Curriculum ... 451
Department and Courses ... 429
Graduate Courses in ... 784–785
Field Schools ... 452
Research Fellowships ... 210
Minor Subjects in the Faculty of Graduate Studies ... 744
Molson (Anne) Gold Medal ... 190
Molson (Anne) Prize in Chemistry ... 192
Molson (H. W.) Fellowship in Cancer ... 212
Montreal Bar Association Prize ... 205, 605
Montreal Dental Club Gold Medal ... 204
Montreal Foundling and Baby Hospital ... 529
Montreal General Hospital ... 529
Montreal General Hospital Alumnae Scholarships ... 218
Montreal Light, Heat & Power Company's Prizes ... 197
Montreal Neurological Institute ... 527
Morris (Alexander) Exhibition ... 205, 605
Moyse Travelling Scholarships ... 208
Museums ... 580, 992
Music Examinations ... 649
Music, Courses in Arts and Science ... 299
Music, Facts of Historical Interest ... 642
Music, Public Events during 1942-43 ... 643
Music, Faculty of ... 115
" " Regulations ... 646
Music for Matriculation ... 151, 162
Music, Local Centres ... 676

Narcissa Farrand Scholarship ... 181
National Breweries Limited Prize, The ... 198

	Page
National Council of Jewish Women of Montreal Bursaries	184
National Research Council Scholarships	215
Neurological Institute, Montreal	527
Neurology and Neurosurgery, Courses in Medicine	514
" " " Graduate Faculty	786
" " " Department of	514
Notaries	612
Nurses, School for Graduate	853, 866
Nutrition, Department of	787
Nutting (Charles Albert) Prize	205, 606
Obstetrics, Courses in	519
" Department of	519
Office Attendance in Law	607
Officers of Instruction	3–58
Officers' Training Corps	994
Officials, University	3
Oliver (Allen) Fellowship	208
Oliver (Allen) Gold Medal	190
Ontario Graduates' Society Loan Fund	186
Operative Dentistry	577
Ophthalmology, Department and Courses	522
Ornithology Prize	192
Orthodontia	578
Orthopedic Surgery	516
Osler Library	531
Osler Memorial Scholarship	212
Osler Society	532
Oto-Laryngology, Department and Courses	523
Ottawa Valley Graduates' Society's Bursaries	179
Pædiatrics	513
Palæontology, Courses in Arts and Science	290
" " Graduate Faculty	290
Parasitology	504, 788, 890
Partial Students	119, 241, 807
Part-time Employment	100
Pass Mark. *See Classification.*	
Pathological Chemistry. *See Biochemistry.*	
Pathological Institute	527
Pathology, Courses in Dentistry	570
" " " Medicine	501
" " " Graduate Faculty	789
Pathology, Plant	797
Penhallow Prize	191
Period of Study	119, 240
Peterson Memorial Prize	191

PAGE

Peterson Memorial Scholarship in Classics 188
Peterson Memorial Scholarships in Music 205
Pettes, Mrs. N. (Narcissa Farrand) Scholarship 181
Pharmacology in Dentistry 570, 574
" in Medicine 506
" in the Graduate Faculty 790
" Department of 506
Philology, Comparative 765
Philosophy, Courses in Arts and Science 303
" " Graduate Faculty 790
" Department of 303
Physical Education, Department of 92, 93
Physical Education, School of 116, 829–839
Physical Education (School of) Gold Medal 217
Physical Examination 92

Physics:—
Courses in Arts and Science 306
" Engineering 455, 456
" Commerce 373
" the Graduate Faculty 791, 795
" Department of 306
For Matriculation 153, 167
Physics, Engineering 262, 459
Physiology, Courses in Arts and Science 310
" " Graduate Faculty 796
" " Medicine 499
" " Dentistry 573
" Department of 310
Plant Pathology 796
Political Science, Courses in Arts and Science 276
" " " Commerce 366
" " " Graduate Faculty 766
" " Department of 276
Porter (Dr. J. B.) Scholarship 210
Post-Discharge Re-Establishment Order 185
Pre-Professional Courses in Arts and Science 244
Presbyterian College 89
Presbyterian College Scholarships 182
Preventive Medicine 504
Primary Prize in Medicine 202
Prince of Wales Gold Medal 190
Privileges for Holders of Degrees in Engineering 413

	PAGE
Prizes in Arts and Science	191, 248
In Engineering	194, 196
In Commerce	194
In Dentistry	204, 566
In Gymnastics	217
In Law	204, 605
In Medicine	199
In the School of Physical Education	217, 219, 832
Probation, Regulations in Arts and Science	247
Professional Faculties, Entrance to	121, 244
Professors, Emeritus	16
Professors, List of	3–58
Promotion in Agriculture	943
" Arts and Science	246
" Dentistry	568
" Engineering	461
" Medicine	494
Prosthetic Dentistry	579
Protestant Committee on Education (Regulations of)	279
Province of Quebec Scholarships	213
Provincial Registration for Medical Students	496
Provincial Registration for Dental Students	564
Psychiatry	508
Psychology, Courses in Arts and Science	311
" " Commerce	373
" " Graduate Faculty	797
" Department of	311
Public Examinations for Degrees and Diplomas in Music	646–675, 722
Public Health, Department of	504
Public Health (Dental)	571
Public Health, Diploma of	525
Public Health Nursing	859
Public Local Examinations in Music	674–721
Quebec (Province of) Commerce Essay Prizes	195
Quebec (Province of) Mining Bursaries	200
Quebec (Province of) Post Graduate Scholarships	216
Radiology	524
Reciprocity with Great Britain (Medicine)	496
Redpath (Jane) Exhibition	187
Redpath (Peter) Museum	992
Reford Scholarship	188
Registered Nurses' Scholarship	218
Registrars of Provincial Dental Councils	565
Registrars of Provincial Medical Councils	496

	Page
Registration in Arts and Science	119, 243
" " Commerce	356
" " Dentistry	564
" " Engineering	409
" " Graduate Nurses	855
" " Graduate Studies and Research	739
" " Law	604
" " Library School	805
" " Macdonald College	882
" " Medicine	488
" " Music	646
" " Physical Education	832
Registration Figures	996
Regulations of Protestant Committee on Education	279
Reid, Eliza Memorial Scholarship	194
Reid, Helen R. Y. Scholarships	193
Research Assistants (Temporary)	744
Research Associates	737, 744
Research Council Scholarships (National)	215
Research Fellows	737, 743
Research Institute of Endocrinology	525, 801
Residence. *See Board and Residence.*	
Rhodes Scholarships	214
Robertson (Louis) Prize	197
Roman Law, Courses in	610
Romance Languages. *See French.*	
Ross (P. S.) Bursary	179
Rowat (Thomas Alexander) Scholarship	204, 606
Royal Architectural Institute of Canada Medal	200
Royal Commissioners for 1851 Scholarship	213
Royal Edward Institute	530
Royal Society of Canada Fellowships	214
Royal Victoria College	95
Royal Victoria College Scholarships, Bursaries and Loans	193
Royal Victoria Hospital	528
Royal Victoria Montreal Maternity Pavilion	528
Royal Victoria Hospital Scholarships	218
Sanitary Science	441
Scholars, University	55, 174
Scholarships, Bursaries, Prizes and Medals	173–225
Agriculture	206, 978
Architecture	196
Arts and Science	186, 191
Commerce	194
Dentistry	204

	Page
Scholarships, Bursaries, Prizes and Medals—Cont.	
Engineering	196
Entrance	177–182
French Summer School	207
General Regulations	175
Graduate	205–214
Graduate Nurses, School for	215, 856
Law	204, 605
Library School	215
Medicine	201
Music	205, 647
Open to Students in all Faculties	183
Royal Victoria College	193
School of Household Science	206
School of Physical Education	215
School for Teachers	206, 968
University Bursaries	175, 183
University Scholarships	175
School, The Library	116
School of Architecture	114
School of Commerce	112, 118, 353–384
School of Household Science	116, 882
School for Graduate Nurses	116, 853–866
School for Teachers	117, 882
School of Physical Education	116, 829–839
Science in Economic Life	373
Scientific Management, Course in	369
Scott (Barbara) Scholarship	187
Scott Exhibition	196
Second Year Scholarships in Arts and Science	187
Secretarial Practice	382
Senate	6
Senior School Certificate	133, 156, 407
Shakspere Gold Medal	190
Sharp (F. W.) Prize in Commerce	194
Shriners' Hospital Scholarship	218
Snyder (Charles William) Scholarship	189
Societies, Engineering	414
Societies, Medical	531
Society of Chemical Industry Prize	198
Sociology, Courses in Arts and Science	315
" " Graduate Faculty	799
" Department of	315
Spanish, Courses in Arts and Science	316
" " Commerce	374
" Department of	316
" For Matriculation	155, 167

PAGE

Sports:—
For Men ... 100
For Women ... 101
Staff ... 18–58, 636
" Members on Active Service ... 56
Standing Committees of Governors and Senate ... 8
Steward (Alexander D.) Prize ... 202
Stewart (Neil) Prize ... 185
Strathcona Prizes for Physical Education ... 217
Students, Classes of ... 240, 739
Students in Attendance ... 995
Students' Society Fees ... 98
Summer Essays and Reading in Engineering ... 431
Summer Schools:—
In Architecture ... 431
In Engineering ... 430
In French ... 117
In Metallurgy ... 456
In Mining ... 452
In Surveying ... 458
Supplemental Examinations ... 246, 608
Supplementary Courses in Accountancy ... 380
Surgery, Courses in Medicine ... 515
" " Dentistry ... 573
" Department of ... 515
Surgery, Dental ... 573, 574
Surveying ... 457
Sutherland Gold Medal ... 202

Teachers, School for ... 882
Teachers, Training of ... 117, 278
Teaching and Supervision in School of Nursing ... 859
Terms ... 121
Tests (Interim) ... 252
Theological Colleges, Affiliated ... 88
Theological College Scholarships ... 181
Theological Studies, Graduate Courses in ... 800
Therapeutics, Courses in Dentistry ... 574
" " Medicine ... 506, 509
Theses, Regulations ... 752
Third Year Scholarships in Arts and Science ... 188
Tighe (James) Prize ... 196
Time-Table, Music ... 639
Torrance (Elizabeth) Gold Medal ... 205, 605
Trafalgar (Grace Fairley) Scholarship ... 181
Training of Teachers ... 278
Trigonometry ... 153, 166

	Page
Turner (P. J.) Prize	197
Undergraduates	119, 240
Undergraduate Medical Society	531
Undergraduate Society's Prize in Engineering	197
United Theological College	88
United Theological College Bursaries	181
University Air Training Corps	994
University Bursaries	183
University Entrance Scholarships	177
University Loan Fund	176, 186
University Scholars	55, 174
University Scholarships	175, 183
University Women's Federation Scholarships	215
University Women's Federation Junior Scholarship	215
Urology, Course in	516
Vaccination	92
Vaughan (Susan Cameron) Scholarship	193
Verdun Protestant Hospital	530
Veterinary Public Health	526
Victorian Order of Nurses' Scholarship	218
Waddell Loan Fund	201, 211
Wales (Prince of) Gold Medal	189
War Service, Women's	100, 994
Western General Hospital	529
Wicksteed Medals for Physical Education	219
Williams (Dr. J. Francis) Fellowship	212
Withdrawal from the Faculty of Arts and Science	247
Women Associates of McGill Bursary	185
Women Students	118, 240
Women's War Service	994
Wood Gold Medal	201
Workman Student	196
Y.M.C.A. Memorial Scholarship Fund	184
Zoology, Courses in Arts and Science	317
" " Graduate Faculty	800
" Department of	317
Zoology, Prizes in	192

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Emeritus Professor of Surgery — The Elgin Bldg., Ottawa.

Henry F. Armstrong, M.A.
Emeritus Professor of Drawing and Descriptive Geometry.
2076 Sherbrooke St. W.

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Emeritus Professor of Physics. — Physics Building.

A. T. Bazin, D.S.O., M.D., C.M., F.R.C.S. (C.).
Emeritus Professor of Surgery. — 1414 Drummond St.

John W. Bell, M.Sc.
Emeritus Professor of Mining and Metallurgy.
2778 Cote St. Catherine Rd.

Ernest Brown, M.Sc. (Manchester), M.Eng. (Liverpool), D.Eng. (Toronto).
Emeritus Professor of Applied Mechanics and Hydraulics.
Engineering Building.

W. Gordon M. Byers, M.D., D.Sc.
Emeritus Professor of Ophthalmology. — 1458 Mountain St.

Walter William Chipman, B.A., M.D. (Edin.), LL.D. (Pittsburgh, Univ. of Wales, Dalhousie, Acadia and McGill), D.C.L. (Bishop's), F.R.C.S. (Edin.), Hon. F.R.C.O.G., F.R.C.S. (Can.), F.A.C.S.
Emeritus Professor of Obstetrics and Gynaecology.
1221 Mountain St.

H. B. Cushing, B.A., M.D., C.M.
Emeritus Professor of Paediatrics. — 1538 Sherbrooke St. W.

E. M. Eberts, M.D., C.M., M.R.C.S. (Eng.), L.R.C.P. (Lond.).
Emeritus Professor of Surgery. — Lac Paquin, Val David, Que.

Nevil Norton Evans, M.A.Sc., LL.D.
Emeritus Professor of Chemistry. — 352 Kitchener Ave., Westmount

A. S. Eve, C.B.E., M.A. (Cantab.), D.Sc., LL.D. (Queen's and McGill), F.R.S.C., F.R.S.
Emeritus Dean of the Faculty of Graduate Studies and Research and Emeritus Professor of Physics.
Overponds Cottage, Shackleford, Godalming, Surrey, England.

C. E. Fryer, M.A., Ph.D., F.R. Hist S.
Emeritus Professor of History.
P.O. Box 421, Santa Barbara, California.

Aimé Geoffrion, K.C., B.C.L., D.C.L. (Bishop's). D.C.L. (Honours Course) Université de Montréal.
Emeritus Professor of Civil Law. — 815 Upper Belmont Ave.

*On Active Service.

W. F. Hamilton, M.D., C.M., F.R.C.P. (C.).
Emeritus Professor of Medicine. 1225 Mountain St.

F. C. Harrison, D.Sc., F.R.S.C.
Emeritus Dean of the Faculty of Graduate Studies and Research and Emeritus Professor of Bacteriology.
c/o Bank of Montreal, Waterloo Place, London, England.

Stephen Leacock, B.A. (Toronto), Ph.D. (Chicago), Litt.D. (Brown, Dartmouth and Toronto), LL.D. (Queen's and McGill), D.C.L. (Bishop's).
Emeritus Professor of Political Economy. 3869 Cote des Neiges Road.

Francis E. Lloyd, M.A. (Princeton), Hon. D.Sc. (Wales), Hon. D.Sc. (Masaryk University), F.R.S.C., F.L.S.
Emeritus Professor of Botany. P.O. Box 842, Carmel, California.

C. F. Martin, B.A., M.D., C.M., LL.D. (Queen's, Harvard and McGill), D.C.L. (Bishop's), M.A.C.P., F.R.C.P. (C.).
Emeritus Dean of the Faculty of Medicine and Emeritus Professor of Medicine. 3504 Mountain St.

Gordon Walters MacDougall, K.C., B.A., B.C.L.
Emeritus Professor of Private International Law. 3534 Ontario Ave.

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Emeritus Professor of Legal Ethics. Gleneagles Apartments.

Horst Oertel, M.D.
Emeritus Professor of Pathology.
Devonshire Club, St. James, S.W. 1, London, England.

Harry Crane Perrin, Mus. Doc. (Trinity College, Dublin).
Emeritus Dean of the Faculty of Music.
"Hillstead," Streatham Drive, Exeter, England.

J. Bonsall Porter, E.M., Ph.D. (Columbia), D.Sc., Hon. (Univ. Cape of Good Hope), M. Inst. C.E.
Emeritus Professor of Mining Engineering. 3600 McTavish St.

John Ferguson Snell, B.A. (Toronto), Ph.D. (Cornell), F.C.I.C.
Emeritus Professor of Chemistry. Macdonald College.

Alfred Stansfield, D.Sc. (London), A.R.S.M., F.R.S.C.
Emeritus Professor of Metallurgy. 3182 Westmount Boulevard.

John Tait.
Emeritus Professor of Physiology. 4941 Coronet Ave.

Ramsay Traquair, M.A., F.R.I.B.A.
Emeritus Professor of Architecture. Guysborough, N.S.

Arnold Wainwright, K.C., B.A., B.C.L.
Emeritus Professor of the Law of Evidence. 1614 Seaforth Ave.

Hermann Walter, M.A. (Edin.), Ph.D. (Munich).
Emeritus Professor of German. Arts Building.

OFFICERS OF INSTRUCTION AND ADMINISTRATIVE STAFF

(alphabetically arranged)

F. D. Ackman, M.D., C.M., F.R.C.S. (C.).
Assistant Demonstrator in Surgery. 1374 Sherbrooke St. W.

Rev. Cyril H. Adair, B.A., B.D.
Honorary Lecturer in Religious Instruction (School for Teachers).
Macdonald College.

E. R. Adair, B.A. (Lond.), M.A. (Cantab.), F.R. Hist. S.
Associate Professor of History and Chairman of the Department.
Arts Building.

A. W. Adams, D.D.S.
Demonstrator in Dentistry.
1697 Graham Blvd., Town of Mount Royal.

L. J. Adams, M.D., C.M., F.R.C.P. (C.).
Demonstrator in Medicine. 1374 Sherbrooke St. W.

Raymond Affleck.
Assistant in the University Army Course. Engineering Building.

B. Alexander, B.Sc., M.D., C.M.
Demonstrator in Opthalmology. Medical Arts Building.

Frances Alexander, Ph.D. (Columbia).
Sessional Lecturer in Psychology. Arts Building.

Armine Alley, M.A. (Toronto).
Demonstrator in Anatomy. Medical Building.

G. T. Altimas, B.A. (Loyola), M.D., C.M.
Lecturer in Obstetrics and Gynaecology. 1374 Sherbrooke St. W.

C. K. Anderson, C.A.
Demonstrator in Accounting and Auditing.
3219B Westmount Boulevard.

Joan Anderson, B.Sc.
Carpenter Fellow in Zoology. Biological Building.

Louis J. Arcand, M.Eng.
Assistant Professor of Surveying and Geodesy and Acting Chairman of the Department. 660 De L'Epee Ave., Outremont.

John C. Armour, M.Sc., M.D., C.M.
Associate Professor of Surgery. 42 Church Hill, Westmount.

*M. Aronovitch, B.Sc., M.D., C.M.
Demonstrator in Medicine. 6171 Durocher St.

Henry R. C. Avison, M.A.
Assistant Professor of English. Macdonald College.

J. E. Ayre, M.D. (Alberta).
Teaching Fellow in Obstetrics and Gynaecology.
Royal Victoria Maternity Hospital, Montreal.

Boris P. Babkin, M.D. (St. Petersburg), D.Sc. (Lond.), F.R.S.C.
Research Professor of Physiology (Post-retirement).
Biological Building.

David McCurdy Baird, B.Sc. (U.N.B.).
Demonstrator in Geology. Chemistry and Mining Building.

E. D. Baker.
Assistant in the University Army Course. Engineering Building.

David H. Ballon, B.A., M.D., C.M., F.R.C.S. (C.), F.A.S.C.
Assistant Professor of Oto-Laryngology and Chairman of the Department.
1471 Crescent St.

Madeleine Baratte, Licenciée ès Lettres (Rennes).
Lecturer in French and Resident Assistant to the Warden, Royal Victoria College. Royal Victoria College.

C. A. V. Barker, B.V.Sc. (Toronto), V.S. (Ont. Vet. College).
Veterinarian and Lecturer in Veterinary Science. Macdonald College.

W. H. Barnes, M.Sc., Ph.D., F.R.S.C.
Associate Professor of Chemistry, Director of the Chemistry Building, and Assistant to the Chairman of the Department of Chemistry; Lecturer in University Army Course. Chemistry Building.

James Barry, B.Sc. (Sir George Williams).
Demonstrator in Chemistry. Chemistry Building.

D. Barza, B.A., M.D., C.M.
Demonstrator in Medicine and Clinical Medicine. 4803 St. Urbain St.

Jacques H. Baudouin.
Demonstrator in Mechanical Engineering. Engineering Building.

T. W. Bauer.
Demonstrator in Physics. Physics Building.

W. A. G. Bauld, D.S.O., B.A. (Dalhousie), M.D., C.M., F.R.C.S. (C.), F.A.C.S., F.R.C.O.G.
Assistant Professor of Obstetrics and Gynaecology.
1538 Sherbrooke St. W.

F. H. A. Baxter, D.D.S.
Professor of Operative Dentistry. 1117 St. Catherine St. W.

---

*On Active Service.

H. A. Baxter, M.Sc., D.D.S., M.D., C.M.
Assistant Demonstrator in Surgery. Medical Arts Building.

Stewart G. Baxter, M.D., C.M., M.Sc., Ph.D.
Lecturer in Surgery. 1538 Sherbrooke St. W.

C. C. Bayley, M.A. (Manchester), Ph.D. (Chicago).
Assistant Professor of History, and Sessional Lecturer in Economic History. Arts Building.

E. F. Beach, B.A. (Queen's), Ph.D. (Harvard).
Director of the School of Commerce and Associate Professor of Commerce. Purvis Hall.

Gladys Bean, B.A., M.S.P.E.
Instructor in Physical Education. Royal Victoria College.

M. Beaton, M.D., C.M.
Demonstrator in Radiology. Montreal General Hospital.

J. W. Bedbrooke.
Demonstrator in Accounting. 4656 Patricia.

R. Bell, D.D.S.
Demonstrator in Dentistry. 1224 St. Catherine St. West.

Jean Belland.
Instructor in Violoncello. Conservatorium of Music.

G. H. Benham, B.Sc., Ph.D. (London).
Assistant Professor of Agricultural Chemistry. Macdonald College.

B. Benjamin, B.A., M.D., C.M.
Demonstrator in Paediatrics. 4469 Sherbrooke St. West.

Margaret Bennett.
Instructor in Theory of Music. Conservatorium of Music.

T. S. Bennett, B.A. (N. Carolina), M.D. (Johns Hopkins).
Assistant in Neurology and Neurosurgery. Neurological Institute.

R. C. Bennetts, M.D., C.M.
Assistant Demonstrator in Medicine and Clinical Medicine. 4250 Sherbrooke St. West.

William Bentley, C.G.A.
Bursar. 4081 Dorchester St. W.

N. J. Berrill, B.Sc. (Bristol), Ph.D., D.Sc. (London), F.R.S.C.
Associate Professor of Zoology and Chairman of the Department. Biological Building.

C. C. Birchard, M.D. (Toronto), M.R.C.P. (Lond.), F.R.C.P. (C.).
Assistant Professor of Medicine. 585 Lansdowne Ave.

J. Norman Bird, M.A. (Toronto), M.S.A.
Lecturer in Agronomy. Macdonald College.

J. Neilson Blacklock, D.D.S.
Lecturer in Dental Ethics. Medical Arts Building.

John Bland, B.Arch., A.R.I.B.A., A.M.T.P.I.
Associate Professor of Architecture and Director of the School of Architecture, Lecturer in University Army Course. 3411 Drummond St.

M. Bodier, Licenciée ès Lettres, Diplômée d'Etudes Supérieures (Paris).
Assistant in French. Arts Building.

George F. Bond, B.A. (Florida), M.A. (N.C.).
Assistant in English. Arts Building.

J. P. Borbey, B.A., Sc. (Toronto).
Demonstrator in Civil Engineering and in Surveying and Geodesy. Engineering Building.

*E. T. Bourke, D.D.S.
Special Lecturer in Prosthetic Dentistry. 1414 Drummond St.

C. R. Bourne, M.D., C.M.
Lecturer in Medicine. 2310 Dorchester St. West.

Wesley Bourne, M.Sc., M.D., C.M., F.R.C.P. (C.), F.I.C.A., D.A. (R.C.P. and S. Eng.).
Lecturer in Pharmacology and Anaesthesia. 4833 Western Ave.

Hon. Wilfrid Bovey, O.B.E., B.A., LL.B. (Cantab.), D.Litt. (Laval), LL.D. (Ottawa), F.R.S.C., F.C.I.S.
Director of Extension Courses. 1374 Sherbrooke St. W.

W. G. Bowen, B.Sc.
Demonstrator in Physics in the University Army Course. Physics Building.

Raymond Boyer, Ph.D.
Lecturer in Chemistry. Biological Building.

J. O. W. Brabander, M.D., C.M.
Demonstrator in Medicine and Clinical Medicine. 1390 Sherbrooke St. West.

Violet Brasch, B.A. (Valparaiso), M.A. (Chicago).
Assistant in English. Arts Building.

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Vice-Principal of Macdonald College, Dean of the Faculty of Agriculture, Professor of Entomology and Chairman of the Department. Macdonald College.

E. C. Brooks, L.R.C.P. & S. (Edin.).
Assistant Professor of Radiology. Royal Victoria Hospital.

G. R. Brow, M.D., C.M., F.R.C.P. (C.).
Lecturer in Medicine. Royal Victoria Hospital.

---

*On Active Service.

LYLA I. BROWN, B.A., M.D., C.M.
University Medical Officer for Women — Medical Arts Building.

NORMAN BROWN, M.D., C.M.
Lecturer in Clinical Therapeutics. — 1495 Crescent St.

O. N. BROWN, B.Sc.
Associate Professor of Mining Engineering.
Chemistry and Mining Building.

J. S. L. BROWNE, B.Sc. (Med.), Ph.D., M.D., C.M., F.R.S.C.
Assistant Professor of Medicine. — Royal Victoria Hospital.

NOVAH E. BROWNRIGG, B.A. (Queen's).
Lecturer in French, Macdonald College. — Macdonald College.

A. S. BRUNEAU, K.C., B.A., B.C.L.
Professor of Commercial Law. — 275 St. James St.

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Warden of Strathcona Hall. — Strathcona Hall.

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Demonstrator in Surveying, Drawing and Mechanical Engineering in University Army Course and Demonstrator in Physics.
3450 McTavish St.

J. F. BURGESS, M.D., F.R.C.P. (C.).
Clinical Professor of Dermatology. — Drummond Medical Bldg.

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Demonstrator in Medicine and Clinical Medicine. — 670 Victoria Ave.

E. GODFREY BURR, B.Sc. (On leave of absence.)
Assistant Professor of Electrical Engineering.
699 Aberdeen Ave., Westmount.

C. F. BURTON, A.B. (California).
Sessional Demonstrator in Medicine. — Medical Building.

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Assistant Professor in Prosthetic Dentistry. — Medical Arts Building.

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Assistant in Drawing in Department of Education.
1520 St. Matthew St.

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Institute of Psychiatry.

THOMAS WRIGHT MOIR CAMERON, T.D., B.Sc., M.A., D.Sc. (Edin.), Ph.D., F.R.S.C.
Professor of Parasitology, Chairman of the Department and Director of the Institute of Parasitology. Macdonald College.

A. D. CAMPBELL, M.D., C.M., F.R.C.S. (C.), F.A.C.S., F.R.C.O.G. (Eng.).
Associate Professor of Obstetrics and Gynaecology.
Drummond Medical Building.

D. G. CAMPBELL, B.A., M.D., C.M., F.R.C.P. (C.).
Lecturer in Therapeutics and in Medicine. 1538 Sherbrooke St West.

LUCILLE CARLTON, B.Sc.
Demonstrator in Biochemistry. Biological Bldg.

CLIVE HARCOURT CARRUTHERS, B.A. (Toronto and Oxon.), M.A. (Toronto), Ph.D. (Chicago).
Professor of Classical Philology. 148 Wolseley Ave., Montreal West.

E. H. CAYFORD, B.A., M.D., C.M.
Assistant Demonstrator in Surgery. Medical Arts Building.

CLAUDE CHAMPAGNE.
Lecturer in Composition, Theory ,and Aural Training.
Conservatorium of Music.

ROSS A. CHAPMAN, B.S.A. (Toronto) (O.A.C.), M.Sc.
Athletic Coach and Warden of Men's Residence. Macdonald College.

JOSPEH B. CHERRY, M.D., C.M.
Teaching Fellow in Pathology. Pathological Institute.

A. E. CHILDE, M.D. (Manitoba). (Returned from Active Service).
Assistant Professor of Radiology. Montreal Neurological Institute.

WARWICK FIELDING CHIPMAN, K.C., B.A., B.C.L. (on leave of absence).
Professor of Civil Law. 360 St. James St.

C. V. CHRISTIE, B.Sc., M.A. (Dalhousie).
Macdonald Professor of Electrical Engineering and Chairman of the Department. 87 Holton Ave., Westmount.

HENRY LINDSAY CHRISTIE, B.A., B.E. (Acadia).
Demonstrator in Chemistry. Chemistry Building.

WALTER CLAPPERTON, Hon. A.R.C.M.
Instructor in Singing, Pianoforte Accompaniment, and Lecturer in Diction. 4016 Vendome Ave.

E. N. CLARK.
Demonstrator in Physics. Physics Building.

ROBERT H. CLARK, B.Eng.
Demonstrator in Surveying and Geodesy. Engineering Building.

T. H. Clark, Ph.D. (Harvard), F.R.S.C.
Logan Professor of Palaeontology, Acting Curator of University Museums and Lecturer in University Army Course. Peter Redpath Museum.

Douglas Clarke, M.A., Mus.B. (Cantab.), F.R.C.M., F.R.C.O.
Dean of the Faculty of Music and Director of the Conservatorium of Music. Conservatorium of Music.

Brooke Claxton, K.C., B.C.L., M.P.
Associate Professor of Law. 231 St. James St., W.

Ralph Cole.
Assistant in the University Army Course. Chemistry Building.

James Bertram Collip, M.A., Ph.D. (Toronto), M.D., D.Sc. (Alberta), Hon. D.Sc. (Harvard), LL.D. (Manitoba and Queen's), F.R.S.C., F.R.C.P. (Lond.), F.R.S.
Gilman Cheney Research Professor of Endocrinology, and Director of the Research Institute of Endocrinology.
622 Sydenham Ave., Westmount.

W. V. Cone, B.Sc., M.D., F.R.C.S. (C.). (Returned from Active Service).
Associate Professor of Neurosurgery and Lecturer in Neuropathology.
Montreal Neurological Institute.

Ethel B. Cooke.
Instructor in Public Health Nursing.
c/o Child Welfare Association of Montreal, 830 Richmond Square.

Edgar M. Cooper, M.D., C.M.
Demonstrator in Surgery. 1414 Drummond St.

Irvin Cooper, Mus.B., A.R.M.C.M.
Instructor in Pianoforte, Lecturer in Theory of Music and in School of Music. 4530 Royal Ave., N.D.G.

James H. Cooper, B.Sc. (Agr.).
Lecturer in Agricultural Engineering. Macdonald College.

John I. Cooper, M.A. (Western Ontario), Ph.D.
Assistant Professor of History. Arts Building.

James A. Coote, B.Sc.
Assistant Professor of Mechanical Engineering.
7 Cedar Ave., Pointe Claire.

Percy Ellwood Corbett, M.A. (McGill and Oxon.), LL.D. (Melbourne). (On leave of absence).
Professor of Law in the School of Commerce. R.M.D. 4, Magog, Que.

John G. Coulson, M.A. (Queen's).
Associate Professor and Chairman of the Department of Plant Pathology.
Macdonald College.

H. I. Cramer.
Sessional Demonstrator in Medicine. Medical Building.

EARLE W. CRAMPTON, B.S. (Conn.), M.S. (Iowa), Ph.D. (Cornell).
Professor of Animal Nutrition and Chairman of the Department of Nutrition. Macdonald College.

IVAN H. CROWELL, B.Sc. (New Brunswick), A.M. (Miami), A.M., Ph.D. (Harvard).
Director of Handicrafts Division. Macdonald College.

BASIL CUDDIHY, B.A. (Laval), M.D., C.M.
Demonstrator in Medicine and Clinical Medicine. 5009 Cote des Neiges Rd.

*JOHN CULLITON, B.A. (Sask.), M.A.
Assistant Professor of Economics. Arts Building.

H. W. CUNNINGHAM.
Instructor in Dairying. Macdonald College.

ALEX. B. CURRIE, B.Com. (Queen's), M.A. (Alberta), M.Educ. (Alberta), Ph.D. (London).
Associate Professor of Education. 5228 Clanranald Ave.

CECIL CURRIE, M.A.
Lecturer in Philosophy. Arts Building.

JEAN CURRIE.
Assistant in English. Arts Building.

RICHARD E. DAGG, D D.S.
Demonstrator in Prosthetic Dentistry. 1414 Drummond St.

JOHN DANDO, B.A.
Lecturer in English. 3640 Hutchison St.

JEAN LOUIS DARBELNET, Agrégé de l'Université. (France).
Associate Professor of French, Chairman of the Department, and Director of the French Summer School. 3410 Atwater Ave.

HELEN DAUBNEY.
Lecturer in Textiles and Clothing. Macdonald College.

M. DE F. DAVIES, B.A.
Headmaster, Macdonald High School. Macdonald College.

CARL ADDINGTON DAWSON, B.A., Ph.D. (Chicago).
Professor of Sociology, Chairman of the Social Sciences Group of the Faculty of Arts and Science, and Chairman of the Department of Sociology. 4663 Victoria Ave.

HOWARD DAWSON, B.A., M.D.
Assistant Professor of Surgery. 1538 Sherbrooke St. West.

J. J. DAY, B.A., M.D., C.M.
Assistant Demonstrator in Medicine. Medical Building.

*On Active Service.

JOHN PERCIVAL DAY, B.A., B.Sc. (Lond.), D.Phil. (St. Andrews).
R. B. Angus Professor of Economics, Lecturer in University Army Course. Arts Building.

HELEN DEANE, B.A. (Wellesley), Ph.D. (Brown)
Sessional Lecturer in Zoology. Biological Building.

M. L. DE ANGELIS, M.Sc.
Demonstrator in Physics. Physics Building.

ANA DENTON, B.A.
Assistant in Spanish. Arts Building.

M. G. DE JERSEY, B.A.
Assistant in Psychology. Arts Building.

WALTER A. DELONG, B.S.A. (Toronto), M.Sc. (McGill), Ph.D. (Minnesota).
Associate Professor of Chemistry in the Faculty of Agriculture. Macdonald College.

O. F. DENSTEDT, B.Sc. (Manitoba), Ph.D.
Assistant Professor of Biochemistry. Apt. 3, 412 Prince Arthur West.

LOUIS D'HAUTESERVE, B. ès L. and Ph. (Paris), M.A. (McGill), Ing. E.F.M. and Licencié en Droit (Paris). (On leave of absence).
Assistant Professor of French. Arts Building.

G. J. DODD, M.Sc.
Associate Professor of Civil Engineering, Lecturer in University Army Course. Apt. 2, 2082 Sherbrooke West.

J. S. DOHAN, D.D.S. (Bishop's), F.A.C.D.
Professor of Prosthetic Dentistry. 1411 Stanley St.

H. S. DOLAN, B.A., M.D., C.M.
Assistant Demonstrator in Surgery. 1509 Sherbrooke St. West.

M. L. DONIGAN, D.D.S.
Lecturer in Orthodontia. 1414 Drummond St.

S. I. DOUBILET, M.D., C.M.
Demonstrator in Paediatrics. Medical Arts Bldg.

D. E. DOUGLAS, B.Sc.
Demonstrator in Chemistry in the University Army Course. Chemistry Building.

H. L. DREW, A.B. (California).
Sessional Demonstrator in Medicine. Medical Building.

G. Lyman Duff, M.A., M.D., Ph.D. (Toronto).
Strathcona Professor of Pathology, Chairman of the Department, and Director of the Pathological Institute. 126 Ballantyne Ave. N.

Agnes S. Duncan, B.A. (McMaster).
Assistant in English. Arts Building.

J. W. Duncan, M.D., C.M., F.R.C.S. (C.), F.A.C.S., F.R.C.O.G.
Clinical Professor of Obstetrics and Gynaecology.
Medical Arts Building.

E. Melville DuPorte, B.S.A., M.Sc., Ph.D.
Associate Professor of Entomology of Macdonald College.
Macdonald College.

S. Dworkin, D.D.S., M.D., C.M., M.Sc. (On Leave of Absence).
Lecturer in Physiology. Biological Building.

F. S. Eadie.
Demonstrator in Physics. Physics Building.

W. W. Eakin, M.D., C.M., F.R.C.P. (C.).
Demonstrator in Medicine. 1538 Sherbrooke St. W.

F. Edelman.
Demonstrator in Physics. Physics Building.

Campbell J. Elder.
Demonstrator in Surveying and Geodesy. Engineering Building.

*H. M. Elder, M.D., C.M.
Assistant Professor of Surgery. Medical Arts Building.

Evelyn K. Elderkin, B.S. (Columbia). (On Leave of Absence.)
Lecturer in Art and Interior Decoration. Macdonald College.

A. R. Elvidge, M.Sc., M.D., C.M., Ph.D., F.R.C.S. (C.).
Assistant Professor of Neurosurgery.
Montreal Neurological Institute.

S. Epstein, M.Sc. (Man.).
Demonstrator in Chemistry. Chemistry Building.

L. P. Ereaux, B.Sc., M.D., C.M.
Clinical Professor of Dermatology. 1390 Sherbrooke St. West.

Gerald Fauteux, K.C., B.A., LL.L. (Montreal).
Sessional Lecturer in Criminal Law. 132 St. James St. W.

Neil Feeney, B.A. (Laval), M.D., C.M.
Lecturer in Medicine. 1414 Drummond Street.

---

*On Active Service.

H. L. Fetherstonhaugh, B.Arch., F.R.I.B.A.
Sessional Lecturer in Design and Professional Practice in the School of Architecture. 660 St. Catherine St. W.

Harold G. Files, M.A., Ph.D. (Harvard).
Greenshields Professor of English Literature. Arts Building.

H. Finestone.
Assistant in Sociology. Arts Building.

Hay Finlay, Dip. M.S.P.E.
Athletics Manager (during the absence of Col. D. S. Forbes on war service). 475 Pine Ave., West.

Margaret Finley.
Chief Instructress, School of Physiotherapy. Medical Building.

Guy Fisk, B.A., M.D., C.M , D.T.M. & H. (Eng.)
Lecturer in Physiotherapy and Director of the School of Physiotherapy. Montreal General Hospital.

R. R. Fitzgerald, B.Sc., M.D., C.M., F.R.C.S. (Eng. and C.).
Assistant Professor of Surgery. 1414 Drummond Street.

J. C. Flanagan, D.D.S.
Lecturer in Prosthetic Dentistry. 1224 St. Catherine St. W.

D. S. Fleming, B.A., M.D., C.M., D.P.H. (Toronto).
Assistant Professor of Bacteriology. Pathological Institute.

W. R. Foote, B.A., M.D., C.M.
Assistant Demonstrator in Obstetrics and Gynaecology. 1374 Sherbrooke St. W.

*D. Stuart Forbes, M.C., B.Sc., B.Arch.
Athletics Manager. McGill Union.

D. S. Forster, M.A., M.D., C.M.
Assistant Professor of Anatomy. 4405 Wellington St.

*H. L. Foster, B.A., M.D. (Toronto).
Lecturer in Pathology. Pathological Institute.

J. S. Foster, Ph.D. (Yale), D.Sc. (Acadia), F.R.S.C., F.R.S. (On leave of absence).
Macdonald Professor of Physics. 615 Lansdowne Ave., Westmount.

A. F. Fowler, M.D., C.M.
Lecturer in Medicine. 3468 Hingston Ave., N.D.G.

W. W. Francis, A.B., M.D. (John Hopkins), M.D., C.M. (ad eun.).
Librarian, Osler Library, Lecturer in the History of Medicine. 1620 Cedar Ave.

*Gerald Franklin, D.D.S.
Lecturer in Orthodontia. 1414 Drummond St.

---

*On Active Service.

BETTY FRASER, M.D. (Minn.).
Teaching Fellow in Paediatrics. 528 Pine Ave. W.

J. R. FRASER, M.D., C.M., F.R.C.S. (C.), F.A.C.S., F.R.C.O.G.
Dean of the Faculty of Medicine, Professor of Obstetrics and Gynaecology and Chairman of the Department. 1311 Pine Avenue West.

A. O. FREEDMAN, M.D., C.M.
Lecturer in Otolaryngology. Medico-Dental Building.

VALERIE FRIEDMAN, B.S. (Michigan State College).
Sessional Demonstrator in Medicine. Medical Building.

R. DeL. FRENCH, B.Sc., C.E. (Wor.Poly.Inst.), Mem. Am. Soc. C.E.
Professor of Highway and Municipal Engineering and Secretary of the Faculty of Engineering, Lecturer in University Army Course.
3653 Oxenden Avenue.

CONSTANCE LIVINGSTONE FRIEDMAN, M.Sc.
Demonstrator in Anatomy, Histology and Biochemistry.
Biological Building.

S. M. FRIEDMAN, B.A., M.D., C.M.
Teaching Fellow in Anatomy. Medical Building.

C. W. FULLERTON, M.D., C.M.
Lecturer in Medicine. 1414 Drummond Street.

*J. S. FULTON, Ph.D. (Cornell).
Assistant Professor of Philosophy. Arts Building.

MRS. LUCIE TOUREN FURNESS, Licenciée ès Lettres (Paris).
Assistant Professor of French and Assistant Director of the French Summer School. 3558 Grey Ave.

EUGENE A. GAREAU, B.Eng.
Demonstrator in Electrical Engineering Engineering Building.

WILLIAM GAUVIN, M.Eng.
Sessional Lecturer in Chemistry. Chemistry Building.

*A. K. GEDDES, M.D., C.M.
Lecturer in Paediatrics. 1390 Sherbrooke St. W.

A. ROBERT GEORGE, B.A. (Bristol), B.D. (London).
Sessional Lecturer in Education. 2055 University St.

J. W. GERRIE, B.A., D.D.S. (Alberta), M.D., C.M., D.L.O. (Eng.).
Assistant Professor of Oral Surgery. 1414 Drummond St.

R. D. GIBBS, M.Sc., Ph.D. (Lond.), F.R.S.C.
Assistant Professor of Botany, Lecturer in University Army Course.
Biological Building.

---

*On Active Service.

N. Giblin, M.C., B.A. (Tas.), M.B., Ch.B. (Edin.).
Associate Professor of Physiology. Biological Building.

J. E. Gill, Ph.D. (Princeton), F.R.S.C.
Associate Professor of Geology, Lecturer in University Army Course.
251 Ballantyne Ave., N., Montreal West.

*A. H. S. Gillson, M.A. (Cantab.).
Professor of Mathematics. 317 Roslyn Avenue

A. W. Gilmour, B.Com., C.A.
Lecturer in Accountancy and Auditing. 3830 Hampton Ave.

Alton Goldbloom, B.A., M.D., C.M., F.R.C.P. (C.).
Assistant Professor of Paediatrics. 1543 Crescent St.

L. L. Golden, M.D., C.M.
Demonstrator in Medicine and Clinical Medicine.
Medical Building.

Keith Gordon, B.A., M.D., C.M., F.R.C.P. (C.). (Returned from Active Service).
Assistant Professor of Medicine. 1374 Sherbrooke St. West.

D. E. Goulas, M.S.
Demonstrator in Physics in the University Army Course.
Physics Building.

W. L. Graff, Ph.D. (Louv.).
Associate Professor of German and Chairman of the Department.
4045 Wilson Ave.

James H. Graham, M.D., C.M.
Assistant Demonstrator in Pathology. Pathological Institute.

Richard P. D. Graham, B.A. (Oxon.), D.Sc., F.R.S.C.
Professor of Mineralogy. Chemistry and Mining Building.

Rhoda Grant, M.A., Ph.D.
Demonstrator in Physiology. Biological Building.

Ronald Grant, B.Sc. (London), Ph.D. (Edin.), F.R.S.E.
Lecturer in Zoology and Physiology. 1610 Sherbrooke St. West.

P. H. H. Gray, M.A. (Oxon.), D.Sc. (Lond.).
Associate Professor and Chairman of the Department of Agricultural Bacteriology.
Macdonald College.

Frank Guadagni.
Demonstrator in Surveying and Geodesy. Engineering Building.

Douglas Gurd, M.D., C.M.
Demonstrator in Obstetrics and Gynaecology. 1482 Mackay St.

Fraser B. Gurd, B.A., M.D., C.M., F.R.C.S. (C.), F.A.C.S.
Professor of Surgery. 1538 Sherbrooke St. W.

*On Active Service.

G. B. A. Hall, M.Com., C.A.
Lecturer in Elements of Accounting. Arts Building.

Guy Hamel, B.Sc. (Loyola), M.D. (University of Montreal), F.R.C.P. (C.)
Demonstrator in Medicine and Clinical Medicine.
239 Cote St. Catherine Road.

Lionel H. Hamilton, M.S. (Wisconsin).
Assistant Professor of Animal Husbandry. Macdonald College.

Frank K. Hanson, Mus.B.
Lecturer in Keyboard Harmony, and Teachers' Methods and Materials; Instructor in Pianoforte; Lecturer in Harmony and Counterpoint; and Lecturer in Music, Macdonald College. Conservatorium of Music.

R. H. Hardie.
Demonstrator in Physics. Physics Building.

R. H. M. Hardisty, D.S.O., M.C., B.A., M.D., C.M.
Lecturer in Medicine and Attending Physician, Royal Victoria College and Strathcona Hall. Medical Arts Building.

Violet Harkness, M.Sc.
Demonstrator in Physics. Physics Building.

A. V. Harris, B.A., B.Com., C.A.
Lecturer in Advanced Cost Accounting and Elements of Accounting.
5919 McLynn Ave.

W. H. Hatcher, M.Sc., Ph.D., F.R.S.C.
Professor of Chemistry, Lecturer in Army Course. 4064 Wilson Ave.

A. B. Hawthorne, B.A., M.D., C.M.
Demonstrator in Urology. Medical Arts Building.

R. D. H. Heard, M.A. (Toronto), Ph.D. (Manchester).
Assistant Professor of Biochemistry. Biological Building.

L. G. Heimpel, M.S., (Cornell).
Associate Professor and Chairman of the Department of Agricultual Engineering. Macdonald College.

J. C. Hemmeon, Ph.D. (Harvard).
William Dow Professor of Political Economy and Chairman of the Department of Economics and Political Science. Arts Building.

A. T. Henderson, M.D., C.M.
Lecturer in Medicine. 900 Sherbrooke St. West.

J. S. Henry, M.D., C.M., M.R.C.O.G.
Assistant Professor of Obstetrics and Gynaecology.
1414 Drummond St.

Robina E. Henry, M.A. (Dublin).
Lecturer in Spanish. Arts Building.

M. A. Hickey, B.Sc., M.D., C.M.
Assistant Demonstrator in Medicine. 4342 Sherbrooke St. West.

BENJAMIN H. HIGGINS, B.A. (Western Ont.), M.Sc. (Lond.), Ph.D. (Minn.).
Bronfman Professor of Economics. Purvis Hall.

RUTH HILL, B.A.
Junior Resident Assistant at Royal Victoria College.
Royal Victoria College.

G. E. M. HILTON.
Assistant Demonstrator in Oto-Laryngology. 5325 LaSalle Blvd.

E. G. HINDS, Ph.D. (Edinburgh).
Teaching Fellow in Pathology. Pathological Institute.

G. E. HODGE, M.D., C.M., F.A.C.S., F.R.C.S. (C.).
Assistant Professor of Oto-Laryngology. 1414 Drummond St.

H. E. HOFF, B.S. (Wash.), B.A., D.Phil. (Oxon.), M.D. (Harvard).
Joseph Morley Drake Professor of Physiology, Chairman of the Biological Sciences Group of the Faculty of Arts and Science, Chairman of the Department of Physiology and Director of the Biological Building.
Biological Building.

J. H. HOLDEN, Sc.M. (M.I.T.).
Assistant Professor of Chemistry. Chemistry Building.

ISABEL HONEY, M.A. (Tor.).
Lecturer in Foods and Cookery. Macdonald College.

F. S. HOWES, Ph.D. (London).
Assistant Professor of Electrical Engineering. Engineering Building.

MABEL F. HOWIE, B.Sc., M.D., C.M.
Demonstrator in Bacteriology. Pathological Institute.

JOHN HUGHES, M.A. (Wales).
Macdonald Professor of Education and Chairman of the Department.
Arts Building.

JOHN P. HUMPHREY, B.Com., B.A., B.C.L.
Associate Professor of Law and Secretary to the Faculty of Law.
427 Elm Ave., Westmount.

WALTER HUNGERFORD.
Instructor in Pianoforte. Conservatorium of Music.

E. MATILDE HUNTER, B.A., M.B., B.C.H.
Lecturer in Medicine. Royal Victoria Hospital.

G. A. P. HURLEY, M.B., B.Ch., B.A.O.
Demonstrator in Surgery. 3660 Lorne Crescent.

C. LEONARD HUSKINS, B.S.A., M.Sc. (Alberta), Ph.D., D.Sc. (London), F.R.S.C.
Professor of Genetics and Chairman of the Department.
3508 Durocher Street.

KEITH HUTCHISON, M.D., C.M.
Lecturer in Oto-Laryngology. 1509 Sherbrooke St. West.

G. S. INGRAHAM.
Lecturer in Pathology. Pathological Institute.

E. C. IRVINE, M.A., B.Paed. (Toronto).
Lecturer in Mathematics, Faculty of Agriculture Macdonald College.

J. S. ISENBERG.
Demonstrator in Physics. Physics Building.

JOAN JACKSON, B.A. (McMaster), M.A.
Assistant in English. Arts Building.

F. CYRIL JAMES, B.Com. (London), M.A., Ph.D. (Penn.), D.C.L. (Bishop's), LL.D. (Queen's, etc.).
Principal and Vice-Chancellor of the University, Professor of Political Economy Arts Building.

R. E. JAMIESON, M.Sc. (on partial leave of absence).
William Scott Professor of Civil Engineering and Chairman of the Department of Civil Engineering and Applied Mechanics.
234 Metcalfe Ave., Westmount.

HERBERT JASPER, Ph.D. (Iowa), D. ès Sc. (Paris).
Assistant Professor of Neurophysiology and Director of E.E.G. Laboratory. 4930 Circle Road.

ALICE JOHANNSON.
Assistant Curator of the University Museums. Redpath Museum.

EDITH JOHNSON.
Instructor in Pianoforte. Conservatorium of Music.

J. G. W. JOHNSON, M.A., M.D., C.M., F.R.C.S. (Edin.), F.R.C.S. (C.).
Assistant Professor of Surgery. 1005 Sherbrooke St. West.

KENNETH B. JOHNSTON, M.D., C.M.
Lecturer in Ophthalmology. 1509 Sherbrooke St. W.

C. R. JOYCE, M.D., C.M.
Demonstrator in Medicine and Clinical Medicine. 5242 Park Ave.

FREDERICK KALZ, M.D. (Prague).
Lecturer in Dermatology. 1414 Drummond St.

GERTRUDE G. KALZ, Matura (Prague), M.D.
Demonstrator in Bacteriology. Pathological Institute.

HYMAN KAUFMAN, B.Sc.
Demonstrator in Physics. Physics Building.

JOSEPH KAUFMANN, M.D., C.M., F.R.C.P. (C.).
Assistant Professor of Medicine. 1476 Crescent St.

MARK KAUFMANN, M.D., C.M.
Assistant Demonstrator in Surgery. 1440 Crescent Street.

P. J. KEARNS, M.Sc., M.D., C.M., M.R.C.O.G., F.A.C.S.
Lecturer in Obstetrics and Gynaecology and Clara Law Fellow.
Women's Pavilion, Royal Victoria Hospital.

A. S. KEILLER.
Lecturer in Commerce Evening Courses. 318 Cote St. Antoine.

B. S. KEIRSTEAD, B.A. (U.N.B. and Oxon).
Bronfman Professor of Economics and Political Science. Arts Building.

CHESTER E. KELLOGG, B.A. (Bowdoin), M.A., Ph.D. (Harvard).
Associate Professor of Psychology. 615 Pine Ave., St. Lambert.

ALBERT J. KELLY, B.Sc. (On leave of Absence).
Associate Professor of Surveying and Geodesy. The Observatory.

C. D. KELLY, M.S.A. (U.B.C.), Ph.D. (Cornell).
Assistant Professor of Bacteriology and Immunity.
30 Wicksteed Road, Town of Mount Royal.

R. F. KELSO, M.A., M.B.
Medical Officer of Macdonald College. Macdonald College.

W. R. KENNEDY, B.Sc., M.D., C.M.
Lecturer in Medicine. 3456 Harvard Ave.

*JOHN KERSHMAN, B.Sc., M.D., C.M., M.Sc.
Lecturer in Neuroelectrography. Neurological Institute.

DAVID A. KEYS, M.A. (Toronto), Ph.D. (Harvard and Cantab.), F.R.S.C.
Macdonald Professor of Physics, Chairman of the Physical Sciences Group of the Faculty of Arts and Science, and Director of the University Army Course. 201 Brock Ave. North, Montreal West.

ROBERT B. KILLAM, B.Eng.
Demonstrator in Mechanical Engineering. Engineering Building.

DOROTHY KING, B.Sc., Dip. New York School of Social Work.
Instructor in Social Case Work in the School for Graduate Nurses.
528 Pine Ave. West.

R. W. KLINCK, B.A., M.A.Sc. (B.C.).
Assistant Professor of Mechanical Engineering.
Engineering Building.

E. P. KNIGHT, M.Sc.
Demonstrator in Chemistry. Macdonald College.

C. N. KNOWLES, C.A.
Lecturer in Accounting and Industrial Management.
231 St. James St. W.

P. W. KOLB, B.Sc.
Demonstrator in Chemistry. Chemistry Building.

*On Active Service.

SINCLAIR LAIRD, M.A., B.Phil. (St. Andrews), B.Paed. (Mont), Officier de l'Instruction Publique.
Dean and Director of the School for Teachers and Professor of Education.
Macdonald College.

ARTHUR S. LAMB, B.P.E. (Springfield), M.D., C.M.
Director of the Department of Physical Education and of the School of Physical Education.
Sir Arthur Currie Memorial Gymnasium-Armoury.

SIDNEY LANE, B.Sc. (N.Y.U.).
Demonstrator in Anatomy. Biological Bldg.

MME P. LARIVIERE, Agrégée de l'Université (France).
Lecturer in French. 1532 Pine Ave.

J. E. LATTIMER, B.S.A., M.Sc., Ph.D. (Wisconsin), F.R.E.S.
Professor and Chairman of the Department of Agricultural Economics.
Macdonald College.

EARL M. LAURIN, D.D.S.
Lecturer in Dental History. 1414 Drummond St.

FORREST LAVIOLETTE, B.A. (Reed College), Ph.D. (Chicago).
Assistant Professor of Sociology. Arts Building.

J. R. LAW, B.Sc.
Demonstrator in Chemistry. Chemistry Building.

W. G. LEAHY, B.Sc., D.D.S.
Assistant Professor in Operative Dentistry and Chief of Dental Clinic.
Montreal General Hospital.

J. B. LEBEL.
Demonstrator in Physics. Physics Building.

CHARLES PHILIPPE LEBLOND, M.D. (Paris), D.Sc. (Univ. of Montreal).
Assistant Professor of Histology. 340 Willowdale Ave.

DIGBY LEIGH, B.A., M.D., C.M.
Lecturer in Anaesthesia. Biological Building.

RAYMOND U. LEMIEUX, B.Sc. (Alberta).
Demonstrator in Chemistry. Chemistry Building.

NORAH M. LENOIR.
Assistant in French. Arts Building.

GERALD A. LEONARD.
Demonstrator in Mathematics and Physics in the University Army Course. 4137 Esplanade Ave.

CHARLES STUART LE MESURIER, K.C., B.A., B.C.L.
Dean of the Faculty of Law and Professor of Civil Law.
419 Roslyn Ave., Westmount.

J. D. LEWIS.
Demonstrator in Accounting and Auditing. 1411 Crescent St.

D. SCLATER LEWIS, M.Sc., M D., C.M., F.R.C.P. (C.).
Associate Professor of Therapeutics and Assistant Professor of Medicine.
1390 Sherbrooke St. West.

MARION LINDEBURG, R.N., M.A. (Columbia).
Director, School for Graduate Nurses, and Instructor in Administration, Teaching, and Supervision in Nursing. School for Graduate Nurses.

C. C. LINDSAY.
Sessional Lecturer in Surveying. 159 Craig St. West.

L. M. LINDSAY, M.D., C.M.
Assistant Professor of Paediatrics. Medical Arts Building.

ARTHUR LISMER, A.R.C.A., LL.D. (Dalhousie)..
Sessional Lecturer in the School of Architecture.
Art Association of Montreal.

H. R. LITTLE, B.Sc., Arch.
Sessional Lecturer in Building Construction and Specifications, School of Architecture. 660 St. Catherine St. W.

GEORGE D. LITTLE, M.D., C.M.
Assistant Demonstrator in Surgery. 1538 Sherbrooke St. W.

EMILE A. LODS, M.S.A.
Assistant Professor of Agronomy. Macdonald College.

GERHARD R. LOMER, M.A., Ph.D. (Columbia), F.L.A.
University Librarian, Director of the Library School, and Professor of Library Administration. 1374 Sherbrooke St. W.

PAUL LORRAIN, B.A., M.Sc.
Demonstrator in Physics. Physics Building.

E. S. LOTSPEICH, M.D. (Louisville).
Assistant in Neurology and Neurosurgery. Neurological Institute.

I. K. LOWRY, B.A., D.D.S.
Assistant Professor of Prosthetic Dentistry. 910 Medical Arts Building.

R. A. LUDWIG, M.Sc. (Alberta).
Demonstrator in Plant Pathology. Macdonald College.

D. LUTERMAN, B.Com., C.A.
Demonstrator in Accounting and Auditing. Arts Building.

A. W. MCCLELLAND, D.D.S.
Professor of Orthodontia. 1117 St. Catherine St. West.

MARGARET S. MCCREADY, B.A. (Toronto).
Director of the School of Household Science and Assistant Professor of Nutrition. Macdonald College.

*P. F. MCCULLAGH, B.A. (Toronto), M.A. (McGill), Ph.D. (Chicago).
Assistant Professor of Classics. Arts Building.

H. E. MACDERMOT, M.D., C.M., F.R.C.P. (C.).
Demonstrator in Medicine. Drummond Medical Building.

FRANK J. MACDONALD, B.Sc.
Demonstrator in Chemistry. Chemistry Building.

R. ST. J. MACDONALD, B.A. (St. F.X.), M.D., C.M., D.P.H., Fellow Royal Sanitary Institute.
Associate Professor of Public Health and Preventive Medicine and Acting-Chairman of the Department. Medical Building.

*DONALD MCEACHERN, M.D. (Man.).
Assistant Professor of Neurology. 3578 University St.

J. U. MACEWAN, B.Sc. (Queen's), M.S. (Montana School of Mines).
Birks Professor of Metallurgy and Director of the Chemistry and Mining Building. 3534 University St.

KENNETH T. MACFARLANE, M.D. (Western Ontario).
Demonstrator in Obstetrics and Gynaecology. 1374 Sherbrooke St. West.

P. W. MACFARLANE.
Superintendent of Buildings and Grounds. Power House.

WILLIAM D. MCFARLANE, B.S.A., M.A., Ph.D. (Toronto), F.R.S.C.
Professor and Chairman of the Department of Agricultural Chemistry. Macdonald College.

*C. A. MCINTOSH, B.A., M.D., C.M.
Assistant Professor of Surgery. 1390 Sherbrooke St. West.

J. F. MCINTOSH, B.A. (U.N.B.), M.D., C.M.
Lecturer in Medicine and Secretary of the Faculty of Medicine. 19 Springfield Ave.

R. L. MCINTOSH, B.A., M.Sc. (Dalhousie), Ph.D. (McGill).
Sessional Lecturer in Chemistry. Chemistry Building.

J. F. MACIVER, M.D., C.M. (Queen's).
Demonstrator in Medicine. 371 Redfern Ave.

A. A. MACKAY, M.D., C.M.
Demonstrator in Psychiatry. 1227 Sherbrooke St. W.

F. H. MACKAY, M.D., C.M., F.R.C.P. (C.).
Clinical Professor of Neurology. 1390 Sherbrooke St. West.

*On Active Service.

MARY S. MATHEWSON, R.N., B.S. (Columbia).
Instructor in Public Health Nursing and Assistant Director of the School for Graduate Nurses. 4396 Harvard Ave.

T. H. MATTHEWS, M.A. (Oxon.).
Registrar. 3450 McTavish St.

W. A. MAW, M.S.A.
Associate Professor and Chairman of the Department of Poultry Husbandry. Macdonald College.

*J. C. MEAKINS, M.D., C.M., M.D. (Syd.), LL.D. (Edin.), F.A.C.P., F.R.C.P. (C., Edin. and Lond.), Hon. F.R.C.S. (Edin.), F.R.S.C., F.R.S.E.
Dean of the Faculty of Medicine (on leave of absence), Professor of Medicine, Chairman of the Department, and Director of the University Medical Clinic. The Chateau Apartments, Sherbrooke St. W.

G. C. MELHADO, M.D., C.M., F.C.O.G., F.A.C.S.
Assistant Professor of Obstetrics and Gynaecology. 1390 Sherbrooke St. W.

C. D. MELLOR, B.Com., C.A., C.P.A.
Demonstrator in Accounting and Auditing. Arts Building.

K. I. MELVILLE, M.Sc., M.D., C.M.
Assistant Professor of Pharmacology. Biological Building.

D. L. MENDEL, M.D., C.M.
Demonstrator in Medicine. 423 St. Joseph Blvd. West.

J. H. MENNIE, M.A. (British Columbia), B.Sc. (Oxon.), Ph.D.
Associate Professor of Chemistry and Demonstrator in the University Army Course. 26 Perrault Ave., Ste. Anne de Bellevue.

BERTHA MEYER, M.A.
Lecturer in German. 6 Hudson Ave., Westmount.

JEAN L. MILLAR.
Instructor in Singing. Conservatorium of Music.

G. GAVIN MILLER, M.Sc., M.D., C.M., F.R.C.S. (C.).
Associate Professor of Surgery. 1390 Sherbrooke St. W.

MIRIAM FRANCES MILLER, M.D., C.M.
Assistant Demonstrator in Pathology Pathological Institute.

E. S. MILLS, M.Sc., M.D., C.M., F.R.C.P. (C.).
Assistant Professor of Medicine and Chairman of the Department of Medicine. 1487 Mackay Street.

EDITH B. MITCHELL, B.A.
Demonstrator in Physics in University Army Course. Physics Building.

---

*On Active Service.

C. F. MOFFATT, B.A., M.D., C.M.
Assistant Professor of Medicine. 1455 Crescent St.

*LORNE C. MONTGOMERY, M.D., C.M., F.R.C.P. (C.).
Professor of Medicine. 1414 Drummond St.

C. H. P. MOORE, D.D.S.
Demonstrator in Operative Dentistry. 1414 Drummond St.

R. H. MORE, M.D. (Toronto).
Sessional Lecturer in Pathology, Lecturer in University Army Course.
Pathological Institute.

FRANK O. MORRISON, B.A., M.Sc. in Agr. (Alta.), Ph.D.
Lecturer in Entomology. Macdonald College.

G. K. MORTON, M.D. (Alta.).
Assistant Demonstrator in Neurology and Neurosurgery.
Neurological Institute.

J. W. MORTON, D.D.S.
Demonstrator in Dentistry. 1410 Guy Street.

M. MORTON.
Demonstrator in Chemistry in the University Army Course.
Chemistry Building.

*N. W. MORTON, Ph.D.
Assistant Professor of Psychology. Arts Building.

H. F. MOSELEY, B.A. (McGill), M.A., D.M., M.Ch. (Oxon.), F.R.C.S. (Eng.), F.R.C.S. (C.).
Lecturer in Surgery. 1414 Drummond St.

D. PRESCOTT MOWRY, D.D.S.
Associate Professor of Periodontia. 1411 Stanley St.

IVEAGH MUNRO, M.S.P.E. (McGill), B.Sc., M.A. (Col.)
Physical Director for Women and Assistant Director of the School of Physical Education. 1535 Summerhill Ave.

J. G. MUNROE, M.D., C.M.
Demonstrator in Medicine. 5078 St. Catherine St. E.

E. G. D. MURRAY, O.B.E., M.A. (Cantab.), L.M.S.S.A. (London), F.R.S.C. (On leave of absence).
Professor of Bacteriology and Immunity 3590 University St.

HAROLD R. MURRAY, B.S.A. (Toronto), M.Sc. (Cornell).
Associate Professor of Horticulture and Chairman of the Department.
Macdonald College.

T. R. MURRAY, D.D.S.
Demonstrator in Dentistry. 1414 Drummond St.

MARION NASH, B.Sc., R.N.
Instructor in Public Health Nursing. Apt. 10, 1519 St. Mark.

*On Active Service.

J. A. Nelson, M.Sc. (Alta.).
Demonstrator in Chemistry. Macdonald College.

A. R. Ness, B.S.A.
Professor and Chairman of the Department of Animal Husbandry. Macdonald College.

A. H. Neufeld, M.Sc., Ph.D. (Man.), A.C.I.C.
Lecturer in Endocrinology. Medical Building.

John Newland, C.A.
Demonstrator in Accounting and Auditing. Arts Building.

T. F. M. Newton, M.A. (McGill and Harvard). (On leave of absence).
Associate Professor of English. Arts Building.

B. L. Newton, M.D., C.M.
Demonstrator in Pathology. Pathological Institute.

R. V. V. Nicholls, M.Sc., Ph.D.
Assistant Professor of Chemistry and Lecturer in University Army Course. Chemistry Building.

Nikolai Nikolaiczuk, M.Sc. (Alberta).
Lecturer in Poultry Husbandry. Macdonald College.

L. Nirenberg.
Demonstrator in Physics. Physics Building.

*Algy S. Noad, M.A.
Associate Professor of English. Arts Building.

R. L. Noble, M.D. (Tor.), Ph.D. (Lond.).
Assistant Professor in Endocrinology and Physiologist to the Department of Endocrinology. Medical Building.

Myron Notkin, M.D., C.M.
Demonstrator in Medicine. Suite 503, Medical Arts Building.

L. Novack, B.Sc. (Sir George Williams and McGill).
Demonstrator in Chemistry. Chemistry Building.

N. Nussey.
Lecturer in Pomology. Macdonald College.

P. K. Nutt, B.Com., C.A.
Lecturer in Intermediate Accounting and Auditing and Demonstrator in Final Accounting and Auditing. 83 Lorne Ave., St. Lambert, P.Q.

J. Appleton Nutter, B.A., M.D., C.M., F.R.C.S. (C.), F.A.C.S.
Clinical Professor of Orthopaedic Surgery. Suite 806, 1414 Drummond St.

W. Fraser Oliver, Ph.D.
Assistant Professor of Agricultural Physics. Macdonald College.

*On Active Service.

M. ONDERET.
Instructor in Violin. Conservatorium of Music.

J. H. O'NEILL, M.D., C.M.
Demonstrator in Paediatrics. 1374 Sherbrooke St.

JOHN J. O'NEILL, M.Sc., Ph.D. (Yale), F.R.S.C.
Dean of the Faculty of Engineering, Dawson (Macdonald) Professor of Geology, and Chairman of the Department of Geological Sciences.
489 Grosvenor Ave., Westmount.

EMANUEL ORLICK, B.A. (Univ. of Western Ont.), M.A., M.S.P.E. (Higher Diploma).
Assistant Physical Director. 475 Pine Ave. W.

SAMUEL ORTENBERG, M.D., C.M.
Assistant Demonstrator in Medicine. 1538 Sherbrooke St. W.

MARTIN D. O'SHAUGHNESSY, M.Eng., M.S. (Montana School of Mines).
Lecturer in Mining and Metallurgical Engineering and in the University Army Course. Chemistry Building.

DOROTHY OSBORNE, B.Sc., D. ès Sc. (Montpellier).
Demonstrator in Physics Physics Building.

F. FITZ OSBORNE, M.A.Sc. (U.B.C.), Ph.D. (Yale), F.R.S.C.
Associate Professor of Geology and Lecturer in University Army Course.
5426 Clanranald Ave.

G. R. W. OWEN, B.A., B.C.L.
Sessional Lecturer in Civil Law. 215 St. James St. West.

GORDON PALL, B.A. (Manitoba), M.A. (Toronto), Ph.D. (Chicago).
Associate Professor of Mathematics and Lecturer in University Army Course. Engineering Building.

*J. H. PALMER, M.D., C.M.
Lecturer in Medicine. 618 Grosvenor Avenue.

W. M. PALMER.
Demonstrator in Physics. Physics Building.

FRANK STEWART PATCH, B.A., M.D., C.M., F.R.C.S. (C.).
Professor of Urology. 1225 Bishop St.

JAMES M. PATON, B.Paed. (Tor.), M.A. (Tor.).
Assistant Professor of English, Macdonald College.
Macdonald College.

IVAN PATRICK, B.A., M.D., C.M., M.R.C.O.G.
Lecturer in Obstetrics and Gynaecology. 1390 Sherbrooke St. West.

R. H. PATTEN, B.Sc.
Assistant Professor of Mechanical Engineering. Engineering Building.

*On Active Service.

*W. J. Patterson, B.A., M.D., C.M.
Lecturer in Orthopaedic Surgery. 1538 Sherbrooke St. West.

Donald R. Patton, B.Com., C.A.
Associate Professor of Accountancy. Arts Building.

Frank G. Pedley, M.C., B.A., M.D., C.M., M.P.H. (Johns Hopkins), Dr. P.H. (Harvard).
Assistant Professor of Public Health and Preventive Medicine and University Medical Officer. Medical Building.

C. B. Peirce, A.B., M.Sc., M.D. (Mich.).
Associate Professor of Radiology and Chairman of the Department.
30 Forden Avenue.

Wilder Penfield, Litt.B., Hon. D.Sc. (Princeton), M.D. (Johns Hopkins), B.A., B.Sc., M.A., and D.Sc. (Oxon.), F.R.C.S. (C.), F.R.S.C., F.R.C.S., F.R.S.
Professor of Neurology and Neurosurgery, Chairman of the Department, and Director of the Neurological Institute. 4302 Montrose Ave.

E. Irene Pentz, M.Sc. (Dal.).
Demonstrator in Biochemistry and Physiology. Biological Building.

J. M. Pepper, Ph.D.
Sessional Lecturer in Chemistry. 3581 Lorne Avenue.

Eleanor S. Percival, B.A., M.D., C.M., F.R.C.S. (C.).
Lecturer in Obstetrics and Gynaecology. 1374 Sherbrooke St. West.

Chateauguay Perrault, B.A., D. en Droit (Mtl.).
Sessional Lecturer in Civil Law. 360 McGill St.

Gordon E. Perrigard, B.A., M.D., C.M.
Demonstrator in Anatomy. Medical Building.

J. N. Petersen, B.Sc., M.D., C.M.
Lecturer in Neurology and Executive Assistant to the Director of the Neurological Institute. Montreal Neurological Institute.

C. J. F. Phillips-Wooley, M.D., C.M.
Demonstrator in Surgery. Montreal General Hospital.

J. B. Phillips, M.Sc., Ph.D. (On leave of absence).
Associate Professor of Chemistry. Chemistry Building.

N. W. Philpott, M.D., C.M., M.C.O.G. (Returned from Active Service).
Associate Professor of Obstetrics and Gynaecology.
1390 Sherbrooke St. West.

C. J. Pimenoff, M.Sc.
Demonstrator in Civil Engineering. Engineering Building.

*On Active Service.

RALPH E. POWELL, B.A. (Mount Allison), M.D., C.M., F.R.C.S. (Edin.), F.R.C.S. (C.), F.A.C.S.
Clinical Professor of Urology. 1486 Crescent St.

MIQUEL PRADOS Y SUCH, M.D. (Madrid).
Assistant Professor of Neuropsychiatry.
Montreal Neurological Institute.

H. GURTH PRETTY, M.D., C.M.
Lecturer in Surgery. 1414 Drummond St.

J. E. PRITCHARD, M.D. (Manitoba).
Lecturer in Pathology. 239 Lazard Ave., Town of Mount Royal.

CLIFFORD B. PURVES, B.Sc., Ph.D. (St. Andrews).
E. B. Eddy Professor of Industrial and Cellulose Chemistry.
Pulp and Paper Building.

I. M. RABINOWITCH, M.D., C.M., D.Sc., F.R.C.P. (C.), F.A.C.P. (Returned from Active Service).
Associate Professor of Medicine, Lecturer in Biochemistry and Special Lecturer in Medical Jurisprudence and Toxicology.
Montreal General Hospital.

A. GERALD RACEY, D.D.S.
Lecturer in Oral Pathology. 1414 Drummond St.

A. O. RALPH, B.Sc.
Demonstrator in Chemistry. Chemistry Building.

VIOLET B. RAMSAY.
Lecturer in Primary Methods and Nature Study. Macdonald College.

G. A. STUART RAMSEY, B.A., M.D., C.M.
Assistant Professor of Ophthalmology. 1496 Mountain St.

L. C. RAYMOND, M.S. (Wisconsin).
Associate Professor of Agronomy. Macdonald College.

GEORGE E. REED, M.B. (Toronto).
Lecturer in Psychiatry. 6635 Lasalle Boulevard.

ALLANA G. REID, B.A.
Assistant in History. Arts Building.

W. STANFORD REID, M.A. (McGill), Th.B. (Westmin.), Ph.D. (Penn.).
Sessional Lecturer in History. Arts Building.

HERSCHELL E. REILLEY, M.Sc.
Associate Professor of Physics and Lecturer in the University Army Course. 120 Easton Ave., Montreal West.

M. REUTCKY, D.D.S.
Demonstrator in Operative Dentistry. 3539 Park Ave.

LAWRENCE J. RHEA, B.Sc. (Texas), M.D. (Johns Hopkins).
Professor of Pathology. (Post retirement appointment).
Montreal General Hospital.

S. L. RICHARDSON, M.D., C.M.
Assistant Demonstrator in Medicine. 1414 Drummond St.

HOWARD RIPLEY, B.A. (Mount Allison), M.D. (Dalhousie).
Demonstrator in Radiology. Interne's Residence, R.V.H.

W. L. RITCHIE, M.B. (Toronto), F.R.C.P. (C.).
Associate Professor of Radiology. Montreal General Hospital.

A. R. ROBERTS, M.Sc.
Professor of Mechanical Engineering and Chairman of the Department.
Engineering Building.

ISIDORE ROCHLIN, M.Sc.
Demonstrator in Biochemistry. Biological Building.

MURIEL V. ROSCOE, B.A. (Acadia), Ph.D. (Radcliffe).
Warden of the Royal Victoria College and Associate Professor of Botany.
Royal Victoria College.

J. ROSENBAUM, M.D., C.M., F.A.C.S.
Lecturer in Ophthalmology.
Medico-Dental Building, 1396 St. Catherine St. West.

EDWARD ROSENTHALL, M.Sc.
Sessional Lecturer in Mathematics and Demonstrator in Physics.
Arts Building.

A. Ross, M.C., B.A. (Dalhousie), M.D., C.M. (Returned from Active Service).
Assistant Professor of Surgery.
655 Cote St. Antoine Rd., Westmount.

A. S. Ross, B.A. (Western), A.M. (Oberlin), Ph.D.
Sessional Lecturer in Chemistry and Demonstrator in Physics in the University Army Course. Chemistry Building.

*ALAN ROSS, M.D., C.M.
Lecturer in Paediatrics and Instructor in Child Hygiene, School for Graduate Nurses. 1414 Drummond St.

DUDLEY E. Ross, M.Sc., M.D., C.M.
Assistant Professor of Surgery. 1615 Cedar Avenue.

H. G. Ross, M.D., C.M.
Assistant Demonstrator in Surgery. Montreal General Hospital.

---

*On Active Service.

J. H. Ross, Ph.D.
Lecturer in Chemistry. Chemistry Building.

S. Graham Ross, D.S O., B.A., M.D., C.M., F.R.C.P. (Lond.).
Associate Professor of Paediatrics. 1390 Sherbrooke St. West.

Vernon Ross, M.A., B.S. in Library Science (Columbia).
Instructor in Library School. 1475 Crescent St.

W. Bruce Ross, M.Sc., Ph.D.
Assistant Professor of Mathematics and Demonstrator in Physics and Lecturer in the University Army Course. 3514 Hutchison St.

Mrs. W. B. Ross, B.A. (Oxon.), M.A. (Tor.).
Lecturer in French. Arts Building.

Jean Rosten, B.Sc.
Demonstrator in Chemistry. Chemistry Building.

P. G. Rowe, B.Sc., M.D., C.M., F.R.C.S. (C.).
Lecturer in Surgery. 1414 Drummond Street.

P. H. Rowe, D.D.S.
Demonstrator in Operative Dentistry. 1117 St. Catherine St. West.

W. Rowles, M.Sc., Ph.D.
Associate Professor and Chairman of the Department of Agricultural Physics. Macdonald College.

*T. E. Roy, B.A. (Acadia), M.D., C.M.
Assistant Professor of Bacteriology. 5003 Dornal Ave.

Colin K. Russel, B.A., M.D., C.M., F.R.C.P. (C.). (Returned from Active Service).
Associate Professor of Neurology. (*Post retirement appointment*).
Montreal Neurological Institute.

Fred A. Rutherford, C.A.
Lecturer in Cost Accounting 4414 Old Orchard.

T. Salman.
Demonstrator in Surveying and Geodesy and Demonstrator in Surveying in the University Army Course. Engineering Building.

H. Gerhard F. Sander, Ph.D.
Lecturer in Genetics. Biological Building.

Arthur R. Scammell, B.A.
Assistant in English. Arts Building.

George W. Scarth, M.A. (Edin.), D.Sc., F.R.S.C.
Macdonald Professor of Botany and Chairman of the Department.
20 Maple Ave., Ste. Anne de Bellevue.

E. E. Scharfe, M.D., C.M.
Assistant Demonstrator in Oto-Laryngology. 1414 Drummond St.

---

*On Active Service.

W. H. Schippel, B.Sc., M.Eng.
Lecturer in Electrical Engineering. 117 Graham Blvd.

Sybil Scoggan, M.Sc.
Demonstrator in Biochemistry.
536 Walpole Ave., Town of Mount Royal.

F. R. Scott, B.A. (Bishop's and Oxon.), B.Litt. (Oxon.), B.C.L.
Professor of Civil Law. 451 Clarke Ave.

Jessie Boyd Scriver, B.A., M.D., C.M., F.R.C.P. (C.).
Lecturer in Paediatrics. 510 Roslyn Ave.

W. de M. Scriver, B.A., M.D., C.M., F.R.C.P. (C.).
Lecturer in Therapeutics and Pharmacology, and Assistant Professor of Medicine. 510 Roslyn Ave.

Gordon Segall, B.Sc. (Alta.).
Demonstrator in Chemistry. Chemistry Building.

H. N. Segall, M.D., C.M., F.A.C.P.
Demonstrator in Medicine. Medical Arts Building.

Dorothy J. Seiveright, M.A. (Bishop's).
Lecturer in History and Geography. Macdonald College.

C. R. Seller, D.D.S.
Demonstrator in Operative Dentistry. 1411 Stanley St.

Hans Selye, M.D., Ph.D. (Prag.), D.Sc., F.R.S.C.
Associate Professor of Histology. 659 Milton St.

M. I. Seng, M.D., C.M., F.R.C.S. (C.).
Lecturer in Urology. Medical Arts Building.

P. F. Seymour, C. A.
Lecturer in Final Accounting and Auditing. 215 St. James St. West.

S. B. Shapiro, M.D., C.M.
Demonstrator in Paediatrics. 1414 Drummond St.

F. W. Shaver, M.D., C.M.
Assistant Demonstrator in Oto-Laryngology. 1374 Sherbrooke St. W.

Morton Shaver, M.D., C.M.
Demonstrator in Neurology and Neurosurgery.
Neurological Institute.

A. Norman Shaw, M.A. (Cantab.), D.Sc., F.R.S.C.
Professor of Physics, Chairman of the Department, and Director of the Macdonald Physics Laboratory. 1374 Sherbrooke St. W.

F. Shippam, M.D., C.M., M.R.C.P. (Edin.).
Demonstrator in Paediatrics. 10816 Berri St.

Baruch Silverman, M.D., C.M., F.A.P.A.
Lecturer in Psychiatry and Mental Hygiene.
Mental Hygiene Institute.

ALEX SIM.
Secretary of Rural Adult Education Courses. Macdonald College.

MORRIS A. SIMON, B.A., M.D. (Western Reserve).
Demonstrator in Pathology. Pathological Institute.

C. H. SKITCH, B.A., M.D. (Alberta).
Demonstrator in Psychiatry. 6601 Lasalle Blvd.

C. B. SMITH, B.A., M.D., C.M.
Assistant Demonstrator in Medicine. 3421 Draper Ave.

EMERSON SMITH, M.D., C.M., F.R.C.S. (C.), F.A.C.S.
Clinical Professor of Urology. Royal Victoria Hospital.

FREDERICK SMITH, M.A., M.B., Ch.B. (Cantab.), M.R.C.S. (England), L.R.C.P. (Lond.).
Associate Professor of Bacteriology and Chairman of the Department of Bacteriology. 646 Roslyn Ave.

McIVER SMITH, M.Sc., M.D., C.M.
Assistant Demonstrator in Medicine. Montreal General Hospital.

STANLEY G. SMITH, Ph.D.
Demonstrator in Zoology. Biological Building.

HARRY SOBEL, B.A. (Temple), M.A. (Pennsylvania).
Sessional Lecturer in Biochemistry. Biological Building.

GORDON ST. GEORGE SPROULE, M.Sc.
Associate Professor of Metallurgy. 39 Thornhill Ave., Westmount.

KATHLEEN M. STANTON.
Lecturer in the School for Graduate Nurses. 3661 University St.

HARRY STARR, B.Sc., M.D., C.M.
Teaching Fellow in Pathology. Pathological Institute.

WILLIAM A. STEEVES, B.A. (Acadia), Ed.M. (Harvard).
Lecturer in Mathematics in the School for Teachers. Macdonald College.

R. L. STEHLE, M.A. (Ohio State University), Ph.D. (Yale).
Professor of Pharmacology and Chairman of the Department, and Medical Librarian. Biological Building.

ARTHUR STEINBERG, Ph.D. (Col.).
Lecturer in Genetics. 456 Pine Ave. W.

KARL STERN, M.D. (Frankfort).
Lecturer in Pathology and Neuropathology. Neurological Institute.

THELMA V. STEVENS, B.Sc. (Acadia), M.Sc. (McGill).
Demonstrator in Botany and Junior Resident Assistant at Royal Victoria College. Biological Building.

ARCHIBALD J. STEWART, M.D., C.M., F.R.C.S. (C.), F.A.C.S.
Assistant Professor of Surgery. Drummond Medical Building.

CAMERON STEWART.
Demonstrator in Paediatrics. 5840 Cote St. Antoine Rd.

C. C. STEWART, M.D., C.M., D.A. (R.C.P. & S., Eng.).
Lecturer in Anaesthesia. 1522 Summerhill Ave.

ALICE M. STICKWOOD, B.S., M.A. (Columbia).
Lecturer in Foods, Dietetics, and Institutional Administration. Macdonald College.

ARTHUR W. STINTON, B.Sc. (Alberta).
Demonstrator in Chemistry. Chemistry Building.

WALTER STOCKWELL, B.A. (Bishop's), M.D., C.M.
Assistant Demonstrator in Anaesthesia. 5330 Victoria Ave.

WILLIAM G. STOCKWELL, D.D.S.
Demonstrator in Operative and Prosthetic Dentistry. 1538 Sherbrooke St. W.

MRS. MARION STRANG.
Warden, Women's Residences, Macdonald College. Macdonald College.

GEORGE F. STREAN, B.A., M.D., C.M., F.A.C.S., F.R.C.S. (C.), M.R.C.O.G.
Lecturer in Obstetrics and Gynaecology. 1538 Sherbrooke St. W.

HAROLD W. STRICKLAND, B.Sc. (Acadia).
Demonstrator in Chemistry. Chemistry Building.

R. R. STRUTHERS, B.A., M.D., C.M., F.R.C.P. (C.).
Professor of Paediatrics and Chairman of the Department. 1414 Drummond St.

CHARLES T. SULLIVAN, B.A. (Dal.), Ph.D. (Chicago), D.Sc., F.R.S.C.
Peter Redpath Professor of Pure Mathematics and Chairman of the Department. Arts Building.

ROBERT SUMMERBY, M.S.A. (Cornell).
Professor of Agronomy and Chairman of the Department. Macdonald College.

COLIN G. SUTHERLAND, B.A. (Dalhousie), M.D., C.M.
Lecturer in Medicine. 1509 Sherbrooke St. W.

J. C. SUTTON, B.A., M.D., C.M.
Assistant Demonstrator in Surgery. 1538 Sherbrooke St. W.

WILLIAM D. TAIT, B.A. (Dal.), M.A. and Ph.D. (Harvard).
Professor of Psychology and Chairman of the Department. 2276 Regent Ave

A. M. J. TANNEY, M.D., C.M.
Demonstrator in Urology. 1486 Crescent St.

HERBERT TATE, B.Sc. (N.U.I.), M.A. (Dublin).
Associate Professor of Mathematics. 484 Strathcona Ave.

GWENDOLYN TAYLOR, B.H.S.
Lecturer and Supervisor of Home Management House, School of Household Science. Macdonald College.

DOROTHY TAYLOR-STOLL, B.A.
Assistant in English. Arts Building.

F. J. TEES, M.C., B.A., M.D., C.M., F.R.C.S. (C.), F.A.C.S.
Assistant Professor of Surgery and Honorary Consultant Surgeon, Department of Physical Education. 1538 Sherbrooke St. West.

F. R. TERROUX, M.Sc., Ph.D. (Cantab.).
Assistant Professor of Physics. 1461 Mountain St.

KATHLEEN TERROUX, M.Sc., Ph.D.
Lecturer in Zoology and in Physiology (School for Graduate Nurses). 1461 Mountain St.

F. S. THATCHER, B.S.A., M.Sc., Ph.D.
Lecturer in Agricultural Bacteriology. Macdonald College.

ALEXANDER MACKENZIE THOMPSON, M.A. (Queen's), Ph.D. (Harvard).
Associate Professor of Classics. Arts Building.

ROBERT R. THOMPSON, M.C., V.D., A.C.A. (England), C.A. (Canada). (On leave of absence).
Professor of Accountancy. 487 Argyle Ave., Westmount.

DAVID L. THOMSON, M.A. (Aberdeen), Ph.D. (Cantab.), F.R.S.C.
Dean of the Faculty of Graduate Studies and Research, Professor of Biochemistry, and Chairman of the Department. 3521 University St.

C. J. TIDMARSH, M.A., M.D., C.M., F.A.C.P., F.R.C.P. (C.).
Lecturer in Medicine. 1390 Sherbrooke St. W.

C. GWENDOLINE TOBY, B.A. (Alta.).
Lecturer in Biochemistry in the Institute of Endocrinology and Senior Resident Assistant to the Warden, Royal Victoria College. Biological Building.

A. M. TORRIE, B.Sc., M.D.
Demonstrator in Anaesthesia. 5451 Bourret Ave.

G. EDWARD TREMBLE, M.D., C.M., D.L.O. (R.C.P. & S., Eng.), F.R.C.S. (C.).
Lecturer in Oto-Laryngology. 1390 Sherbrooke St. West.

ERIC TRIGG, B.Com.
Demonstrator in Accounting. 2176 Paris St.

R. DE H. TUPPER.
Vice-Director and Secretary of the Conservatorium of Music and Instructor in Orchestral Playing. 677 Sherbrooke St. West.

WILLIAM GEORGE TURNER, M.C., B.A., M.D., C.M., M.R.C.S. (Eng.)
Clinical Professor of Orthopaedic Surgery. (*Post retirement appointment*). 900 Sherbrooke St. West.

HON. MR. JUSTICE ORVILLE SIEVWRIGHT TYNDALE, M.A., B.C.L.
Professor of Civil Procedure and Evidence.
115 Sunnyside Ave., Westmount.

JOYCE TYRRELL, B.A. (Toronto).
Instructor in the School of Physical Education. Royal Victoria College.

E. FRANCES UPTON, R.R.C., R.N.
Instructor in Nursing Legislation. Suite 1013, Medical Arts Building.

B. USHER, B.A., M.D., C.M.
Lecturer in Dermatology. 1538 Sherbrooke St. West.

S. J. USHER, B.A., M.D., C.M.
Demonstrator in Paediatrics. 4966 Decarie Blvd.

F. M. VAN WAGNER, B.P.E. (Springfield).
Assistant Physical Director. 3549 Northcliffe Ave.

MARTHE VILLAVICENCIO, B.A. (McMurray College).
Assistant in Spanish. Arts Building.

PHILIP F. VINEBERG, M.A., B.C.L.
Sessional Lecturer in Economics and Political Science and Sessional Lecturer in Commercial Law. 1535 Summerhill Ave.

NORMAN VINER, B.A., M.D., C.M.
Lecturer in Neurology and Psychiatry. 1425 Bishop Street.

THELMA WAGNER, B.Sc., M.A. (New York).
Assistant Physical Director for Women. 3440 Shuter St.

A. H. WALKER.
Instructor in Horticulture. Macdonald College.

G. A. WALLACE, M.Sc.
Associate Professor of Electrical Engineering. 4134 Hampton Ave.

A. B. WALSH, B.Sc. (Agr.)
Registrar of Macdonald College. Macdonald College.

A. L. WALSH, D.D.S., F.A.C.D.
Dean of the Faculty of Dentistry and Professor of Dental Surgery.
Medical Building.

A. A. WARD, A.B., M.D. (Yale).
Demonstrator in Neuropathology. Neurological Institute.

*C. V. WARD, B.A. (Bishop's), M.D., C.M., M.C.O.G. (Eng.), F.A.C.S.
Lecturer in Obstetrics and Gynaecology. 1374 Sherbrooke St. West.

---

*On Active Service.

E. Russell Ward, D.D.S.
Demonstrator in Prosthetic Dentistry. 1538 Sherbrooke St. W.

R. Vance Ward, M.D., C.M., F.R.C.P. (C.)
Lecturer in Medicine and Demonstrator in Public Health and Preventive Medicine. 561 Côte St. Catherine Road.

T. Fred Ward.
Secretary of Macdonald College. Macdonald College.

B. K. Wasson, M.Sc., (Mt. Allison), Ph.D.
Sessional Lecturer in Chemistry. Chemistry Building.

H. G. I. Watson, B.A. (Toronto), M.Sc , Ph.D.
Assistant Professor of Physics and Lecturer in the University Army Course. Physics Building.

W. H. Watson, M.A., Ph.D. (Edin. & Cantab.), F.R.S.C.
Associate Professor of Physics. Physics Building.

Theo. R. Waugh, B.A. (Yale), M.D., C.M.
Associate Professor of Pathology. Pathological Institute.

John J. Weatherseed, F.R.C.O.
Lecturer in Form and Analysis and History of Music and Instructor in Pianoforte and Organ. Conservatorium of Music.

Mrs F. T. Webb, B.A.
Demonstrator in Physics and in the University Army Course. Physics Building.

Gordon Webber,
Instructor in Architectural Drawing and Rendering. Engineering Building.

Paul Weisz, B.Sc.
Demonstrator in Zoology. Biological Building.

A. A. Wellwood, B.Sc., B.A. (Acadia).
Demonstrator in Botany. Biological Building.

Peter Westhuyson, M.Sc., M.D. (Johannesburg).
Demonstrator in Surgery. 1186 Seymour Ave.

H. L. White, B.Sc.
Demonstrator in Chemistry. Chemistry Building.

W. E. Whitehead, M.Sc.
Lecturer in Entomology. Macdonald College.

The Rev. Canon F. L. Whitley, M.A.
Honorary Lecturer in Religious Instruction. Macdonald College.

*F. W. Wiglesworth, M.D. (Man.).
Lecturer in Pathology. Pathological Institute.

*On Active Service.

Prof Coll 216
Med 164

A. L. WILKIE, B.A. (St.F.X.), M.D., C.M.
Assistant Professor of Surgery. 1374 Sherbrooke St. West.

F. A. H. WILKINSON, M.D., C.M., D.A. (R.C.P. & S., Eng.), F.I.C.A.
Lecturer in Anaesthesia. 406 Pine Ave., West.

W. L. G. WILLIAMS, M.A. (Oxon.), Ph.D. (Chicago), F.R.S.C.
Professor of Mathematics. Engineering Building.

N. T. WILLIAMSON, M.D., C.M., F.R.C.S. (C.).
Lecturer in Orthopaedic Surgery. Medical Arts Building.

C. A. WINKLER, M.Sc. (Man.), Ph.D. (McGill), D.Phil. (Oxon.).
Assistant Professor of Chemistry. 16 Easton Ave., Montreal West.

A. R. WINN, B.Sc., D.D.S.
Demonstrator in Orthodontia. 1240 Phillips Square.

L. M. WISE, M.A. (Queen's).
Demonstrator in Chemistry. Chemistry Building.

F. M. WOOD, B.Sc., M.A. (Queen's).
Associate Professor of Civil Engineering and Applied Mechanics and Lecturer in the Army University Course. Engineering Building.

WILLIAM DUDLEY WOODHEAD, B.A. (Oxon.), Ph.D. (Chicago).
Hiram Mills Professor of Classics, Chairman of the Humanities Group of the Faculty of Arts and Science, and Chairman of the Department of Classics. 241 Ballantyne Ave. North, Montreal West.

E. M. WORDEN, M.D. (Tor.).
Demonstrator in Paediatrics. Children's Memorial Hospital.

E. WALTER WORKMAN, M.Sc., M.D., C.M.
Demonstrator in Anatomy and Histology. Medical Arts Building.

CHARLTON LEWIS WRENSHALL, M.Sc. (Sask.), Ph.D. (On leave of absence).
Assistant Professor of Chemistry. Macdonald College.

R. PERCY WRIGHT, M.D., C.M., F.R.C.S. (C.). (Returned from Active Service).
Lecturer in Oto-Laryngology. 1414 Drummond St.

V. C. WYNNE-EDWARDS, M.A. (Oxon.), F.R.S.C.
Assistant Professor of Zoology and Tutor in the University Army Course. 495 Prince Arthur St. West.

A. W. YOUNG, M.D., C.M., F.R.C.P. (C.).
Assistant Professor of Neurology. 1390 Sherbrooke St. West.

C. L. YUILE, M.D., C.M.
Assistant Professor of Pathology. Pathological Institute.

RESEARCH FELLOWS AND RESEARCH ASSOCIATES.

RESEARCH FELLOWS

1943-44

JOHANNES HOLTFRETER, Ph.D. (Freiburg).
Research Fellow in Zoology.

JEAN LUNN, M.A., Ph.D.
Research Fellow in History.

HECTOR MORTIMER, M.B.Ch.B. (Aberdeen), F.R.C.S. (Ed.).
Research Fellow in Endocrinology.

STANLEY GEORGE SMITH, Ph.D.
Research Fellow in Genetics.

WILLIAM E. SWALES, B.V.Sc., Ph.D. (Tor.).
Research Fellow in Parasitology.

ELEANOR M. VENNING, B.A., M.Sc., Ph.D.
Research Fellow in Experimental Medicine.

RESEARCH ASSOCIATES

1943-44

MARTIN M. HOFFMAN, B.A. (Mount Allison), M.Sc. (Dalhousie).
Research Associate in Experimental Medicine.

CATHERINE F. C. MACPHERSON, B.Sc. (Mt. A.), M.Sc. (Dal.).
Research Associate in Bacteriology.

GEORGES MARIE CHARLES MASSON, M.V.D. (Paris), L. ès. Sc. (Montreal), Ph.D.
Research Associate in Anatomy.

DOROTHY OSBORNE, B.Sc., D. ès. Sc. (Montpelier).
Research Associate in Biochemistry.

HUBERT EDMUND WOODWARD, M.Sc. (Sask.), Ph.D. (Pittsburg).
Research Associate in Biochemistry.

UNIVERSITY SCHOLARS 1943-44

With dates of first award

Arts and Science

Ruth Albert....1941
Shirley C. Block....1940
Leo Breitman....1943
Thomas Cassirer....1943
Joyce Betty Cole....1943
Ross M. Cooper....1943
James H. Darragh....1941
Lionel Goldfarb....1943
David Hubel....1943
*Alec W. A. Lane....1942
Rhona C. Leonard....1941
Nora L. Magid....1942
Irving J. Massey....1940
James Naiman....1941
Louis Nirenberg....1942
Michel Perrault....1943
David Rosen....1942
S. Douglas Smith....1943
Sylvia Van Straten....1942

Engineering

Robert Paul Cahn....1940
*Donald F. Coates....1943
William F. Corkran....1943
Geoffrey W. Ince....1943
Curtis L. U. Knight....1941
Ernest W. Legris....1942
John Maybin....1943
Boris Mroz....1941
John Stonehewer....1943
H. Edward White....1941
Geoffrey H. Yorke-Slader....1942

Medicine

T. P. Bruce Payne....1943
William Powles....1936
Harold Rosen....1941
Hyman Shatan....1942
Ian P. Stevenson....1942

Architecture

Sheila Baillie....1942

Law

Alexander M. Stalker....1943

*On Active Service.

ON ACTIVE SERVICE

In addition to those marked above with an asterisk, the following who held annual appointments at the University are on Active Service.

M. Aronovitch, B.Sc., M.D., C.M.
Demonstrator in Medicine. — 6171 Durocher St.

Harry L. Bacal, B.A., M.D., C.M.
Assistant Demonstrator in Paediatrics. — 1414 Drummond St.

C. S. Barker, B.A., M.D., C.M.
Demonstrator in Medicine. — 3440 Walkley Ave.

J. R. Beck, M.A. (Stanford).
Lecturer in German. — Arts Building.

E. H. Bensley, M.D., C.M.
Demonstrator in Medicine. — Medical Building.

J. Bouchard, M.D. (Laval), D.M.R.E. (Cantab.)
Demonstrator in Radiology. — Royal Victoria Hospital.

Antony D. Chapman, M.A.
Sessional Lecturer in English. — Arts Building.

André Cipriani, B.Sc., M.D., C.M.
Demonstrator in Electrography — Neurological Institute.

E. Thorburn Cleveland, D.D.S.
Clinical Demonstrator in Operative Dentistry. — 1414 Drummond St.

William Cohen, M.D., C.M.
Demonstrator in Medicine. — Medical Building.

Gordon A. Copping, M.D., C.M.
Demonstrator in Medicine. — Montreal General Hospital.

E. M. Counsell, B.A. (Oxon.).
Lecturer in Classics. — Arts Building.

T. E. Dancey, B.A., M.D., C.M.
Demonstrator in Psychiatry. — Verdun Protestant Hospital.

Frank S. Dorrance, M.D., C.M.
Demonstrator in Anatomy. — Suite 823, Medical Arts Bldg.

H. V. Driver, D.D.S.
Clinical Demonstrator in Dentistry. — 1240 Phillips Square.

D. C. Eaglesham, M.D., C.M.
Assistant Demonstrator in Radiology. — 3025 Sherbrooke St. W.

F. A. Edward, B.A., D.D.S.
Clinical Demonstrator in Dentistry. — 910 Medical Arts Building.

A. M. Fraser, B.Sc. (Dal.), M.A. (Haverford), M.D., C.M.
Lecturer in Pharmacology. Biological Building.

S. M. Friedman, B.A., M.D., C.M.
Teaching Fellow in Anatomy. Medical Building.

Richard Fuller.
Instructor in Singing. Conservatorium of Music.

Donald C. Gordon, B.Sc. (Acadia), D.D.S.
Demonstrator in Operative Dentistry. 1414 Drummond St.

R. H. Gourlay, M.D., C.M.
Assistant in Pathology. Pathological Institute.

Milton Gray, B.Sc., M.D., C.M.
Demonstrator in Psychiatry. Royal Victoria Hospital.

George A. Grimson.
Accountant. Administration Building.

H. Gwilliam, B.A.
Teacher in Macdonald High School. Macdonald College.

Elmer Hall.
Sessional Lecturer in English. Arts Building.

G. W. Halpenny, M.D., C.M.
Demonstrator in Medicine. Medical Building.

C. M. Harlow, B.Sc. (Acadia), Ph.D., M.D., C.M.
Demonstrator in Medicine and Clinical Medicine.
2050 Claremont Ave.

G. E. M. Hilton, M.D., C.M.
Assistant Demonstrator in Oto-Laryngology. Medical Arts Building.

G. Allison Holland, B.Com., M.D., C.M., F.R.C.S. (C.).
Assistant Demonstrator in Surgery. 4342 Sherbrooke St. W.

J. G. Howlett, M.D., C.M., M.Sc.
Assistant Demonstrator in Medicine and Clinical Medicine.
4061 Grey Avenue.

S. Humphreys, A.B., M.D. (Yale).
Research Fellow in Neurology and Neurosurgery.
Montreal Neurological Institute.

Fergus D. Johnston, B.A., M.D. (Alberta), M.C.O.G.
A. A. Browne Fellow in Obstetrics and Gynaecology.
Royal Victoria Hospital.

J. Wilfred Johnston, D.D.S.
Demonstrator in Dental Pharmacology and Therapeutics.
1414 Drummond St.

J. KILGOUR, B.Sc., M.D. (Manitoba).
Assistant Demonstrator in Medicine and Clinical Medicine.
4109 Cote des Neiges.

PETER LEHMAN, M.D. (Man.).
Assistant Demonstrator in Neurology and Neurosurgery.
Neurological Institute.

L. LOWENSTEIN, B.A., M.D.
Assistant Demonstrator in Medicine and Clinical Medicine.
1390 Sherbrooke St. W.

J. C. LUKE, M.D., C.M.
Demonstrator in Anatomy. 814 Medical Arts Building.

P. N. MACDERMOT, M.D., C.M.
Demonstrator in Paediatrics. 1414 Drummond Street.

CHARLES S. MCEUEN, M.D., C.M.
Research Associate in Biochemistry. Biological Building.

N. W. MCLELLAN, B.A.Sc. (British Columbia), M.D., C.M.
Demonstrator in Bacteriology. Pathological Institute.

J. WENDELL MACLEOD, B.Sc., M.D., C.M., F.R.C.P. (C.).
Demonstrator in Medicine. 1390 Sherbrooke St. W.

R. E. MCMAHON, D.D.S.
Clinical Demonstrator in Dentistry. 1414 Drummond St.

N. B. MCMASTER, M.Sc.
Lecturer in Agricultural Bacteriology. Macdonald College.

E. A. MACNAUGHTON, M.D., C.M., F.R.C.S. (C.).
Demonstrator in Anatomy.
976 Moncrieff Road, Town of Mount Royal.

LORNE F. MCRAE, D.D.S.
Clinical Demonstrator in Dentistry. 1414 Drummond St.

W. H. MATTHEWS, M.D., C.M.
Sessional Lecturer in Bacteriology and Immunity.
Pathological Institute.

G. B. MAUGHAN, M.Sc., M.D., C.M.
Assistant Demonstrator in Obstetrics and Gynaecology.
Royal Victoria Hospital.

J. F. MEAKINS, B.A., M.D., C.M.
Assistant Demonstrator in Medicine and Clinical Medicine.
Royal Victoria Hospital.

DONALD S. MITCHELL, B.Sc., M.D. (Northwestern).
Demonstrator in Dermatology. 1414 Drummond St.

HOWARD S. MITCHELL, B.A., M.D. (Queen's).
Assistant Demonstrator in Medicine. 1414 Drummond St.

HARRY S. MORTON, B.A., M.Sc. (Dalhousie), M.B., B.S. (London), F.R.C.S. (Eng.), M.R.C.O.G.
Demonstrator in Anatomy. 1374 Sherbrooke St. W.

J. V. V. NICHOLLS, B.A., M.D., C.M.
Assistant Demonstrator in Ophthalmology. 1414 Drummond St.

IVAN W. PARNELL, B.A. (Cantab.), Ph.D. (Edin.).
Lecturer in Parasitology. Macdonald College.

J. G. PETRIE, M.D., C.M.
Assistant Demonstrator in Orthopedic Surgery. 1374 Sherbrooke St. W.

THEODORE RASMUSSEN, B.S., B.M., M.S., M.D. (Minn.).
Assistant Demonstrator in Neurology and Neurosurgery. Neurological Institute.

MAX RATNER, M.D., C.M.
Assistant Demonstrator in Urology. 4815 Queen Mary Rd.

R. GRANT REID, M.D., C.M.
Assistant Demonstrator in Urology. 1414 Drummond St.

G. H. RAYMOND, M.D., C.M.
Instructor in Surgery. 4855 Cote St. Luc.

L. W. RICE, M.D. (Western Ontario).
Assistant Demonstrator in Anaesthesia. Montreal General Hospital.

DONALD ROSS, M.D. (Man.).
Demonstrator in Neurology. Neurological Institute.

W. D. ROSS, B.Sc., M.D. (Man.).
Assistant in Neurology and Neurosurgery. Neurological Institute.

F. W. SAUNDERS, D.D.S.
Demonstrator in Oral Surgery. 1414 Drummond St.

J. G. SHANNON, M.D. (Toronto).
Assistant Demonstrator in Orthopedic Surgery. 1414 Drummond St.

DOUGLAS W. SPARLING, M.D. (Toronto).
Assistant Demonstrator in Obstetrics and Gynaecology. 1414 Drummond St.

D. H. STARKEY, M.D., C.M.
Demonstrator in Bacteriology. Pathological Institute.

E. A. STUART, M.D., C.M.
Assistant Demonstrator in Oto-Laryngology. 1509 Sherbrooke St. W.

O. W. Stewart, B.S., M.D. (Oklahoma).
Research Fellow in Neurology and Neurosurgery.
Montreal Neurological Institute.

G. Douglas Taylor, B.A. (Saskatchewan), M.D., C.M.
Demonstrator in Medicine. 1374 Sherbrooke St. W.

Allen B. Temple, M.D., C.M.
Demonstrator in Pharmacology. 4394 Girouard Avenue.

A. T. Thom, B.A., M.D.
Demonstrator in Medicine and Clinical Medicine. 4962 Ponsard Ave.

S. R. Townsend, B.A., M.D., C.M.
Assistant Demonstrator in Medicine. 1414 Drummond St.

Alfred Udow, B.A.
Demonstrator in Psychology. Arts Building.

R. J. Viger, M.D., C.M.
Demonstrator in Ophthalmology. 1414 Drummond St.

Arthur M. Vineberg, M.Sc., M.D., C.M., Ph.D.
Assistant Demonstrator in Surgery. 1414 Drummond St.

W. Walford, D.D.S.
Demonstrator in Anatomy.
No. 3 Training Command, R.C.A.F., Montreal.

D. R. Webster, B.A., M.D. (Dalhousie), Ph.D.
Assistant Demonstrator in Surgery. 1509 Sherbrooke St. W.

A BRIEF HISTORY OF THE UNIVERSITY

In 1813 the Hon. James McGill, a leading merchant and prominent citizen of Montreal, died and left in his will a property of forty-six acres and a sum of £10,000 to the already existing Royal Institution for the Advancement of Learning upon condition that the latter erected "upon the said tract or parcel of land, an University or College, for the purposes of education and the advancement of learning in this Province"; and further upon condition that "one of the Colleges to be comprised in the said University shall be named and perpetually be known and distinguished by the appellation of 'McGill College'."

Owing to a lack of funds and persistent opposition the complete University, which had been planned by the Royal Institution, was not built, but after years of litigation and effort, the University of McGill College was opened in 1829 with what remained of James McGill's legacy as its endowment; and teaching then started in the Faculties of Medicine and Arts. The Medical Faculty grew steadily, but the Faculty of Arts had a most delicate infancy, and by the middle of the century was still scarcely alive. In 1852 an amended Charter was secured and a new era of progress and success began with the appointment in 1855 of Sir William Dawson as Principal, a position which he held for thirty-eight years.

Since 1855 the University has grown vigorously, dividing itself into further faculties, and in 1907 establishing Macdonald College at Ste. Anne de Bellevue, twenty-five miles from Montreal, as a separate residential college for Agriculture, Household Science, and the School for Teachers.* This general development was greatly facilitated by the generosity of Sir William Macdonald, who gave the University a Physics Building, a Chemistry and Mining Building, and a new Engineering Building, in addition to the college named after him and mentioned above.

A history of the University, "McGill and its Story," by Professor Cyrus Macmillan, is published by the Oxford University Press, Toronto.

GOVERNMENT OF THE UNIVERSITY

McGill University is a Corporation created by a Royal Charter granted by the Crown of the United Kingdom, a general supervisory power being retained by the Crown and exercised through the Governor-General as Visitor.

The *Governors* of the University constitute the Royal Institution for the Advancement of Learning, a corporation existing under the laws of the Province of Quebec, part of the official organization of the Province, but completely self-governing. In them is vested the management of finances, the appointment of professors, and other important duties. Three of the Governors are elected by the members of the Graduates' Society

*The School for Teachers has moved to Montreal for the duration of the war.

and other appointments are made by the nomination of the remaining members with the approval of the Visitor. The President of the Board of Governors is *ex officio* Chancellor of the University.

The *Principal* is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member). He also holds the office of Vice-Chancellor of the University.

The *Senate* consists of the Chancellor, the Principal, the Deans of the Faculties, the Warden of the Royal Victoria College, the Director of the School for Teachers, and the four Group Chairmen of the Faculty of Arts and Science, all *ex officio;* five Governors elected by the Board, and eight professors elected by the various faculties. The Principal is Chairman of Senate which is the highest academic authority of the University and has control over admission, courses of study, discipline and degrees.

The carrying out of the regulations of Senate along with primary responsibility for the conduct of the educational work of the University, is entrusted to the several Faculties and Schools.

INCORPORATED AND AFFILIATED COLLEGES

INCORPORATED COLLEGES

Macdonald College is situated at Ste. Anne de Bellevue, about twenty-five miles from Montreal. It consists of the Faculty of Agriculture, the School of Household Science, and the School for Teachers.* All courses leading to the Bachelor's and Master's degrees are under the control of the Senate of McGill University; all the short term courses in agriculture, as well as the shorter courses in domestic science are under the direction of the Faculty of Agriculture, and those for diplomas to teach in the Province of Quebec are prescribed and regulated by the Department of Education. For further particulars see separate Announcement.

The Royal Victoria College is the Women's College of McGill University. For further particulars, see pages 95 and 96.

AFFILIATED THEOLOGICAL COLLEGES

The Theological Colleges named below are affiliated to the University under the following arrangements:—Students in these institutions, who are pursuing a double course in Arts and Theology (six years at least), are exempted from a half course in Arts and Science in each of the Third and Fourth Years or a whole course in either.

The United Theological College of Montreal.—Principal, Rev. George G. D. Kilpatrick, B.A., D.D. (on leave of absence), 3506 University St.

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*The School for Teachers has moved to Montreal for the duration of the war.

THE MONTREAL DIOCESAN THEOLOGICAL COLLEGE.—Principal, Rev. W. A. Ferguson, M.A., B.D., 3473 University St.

For Calendars and all necessary information, apply to the Principals of the Colleges.

AFFILIATION WITH OTHER UNIVERSITIES

Under certain conditions students of McGill University may be granted advanced standing in the Universities of Oxford, Cambridge, and Dublin. Particulars of these conditions may be obtained from the Registrar.

For universities affiliated with the Faculty of Engineering, see page 411.

McGILL UNIVERSITY
MONTREAL, CANADA

GENERAL INFORMATION
1943-44

ADMISSION TO THE UNIVERSITY

1. Entrance Requirements.

The entrance requirements of the various faculties and schools of the University are given in the General Announcement, and in the separate announcements of these faculties and schools. These announcements may be obtained from the Registrar's Office.

2. Application Forms.

Application forms for admission to the faculties of Arts and Science (including the School of Commerce), Engineering, Medicine, and Dentistry, and to the School of Physical Education may be obtained from the Registrar's Office. Applications for admission to other faculties and schools should be made to the deans of the faculties or the directors of the schools concerned. All application forms give details of the certificates and records applicants must submit.

3. Admission to the University.

The admissions policy of the University is definitely selective and no guarantee can be given that a student who has complied with the minimum entrance requirements will be admitted. Students, therefore, should never come to the University until they have received an official acceptance of their applications

4. Inquiries

The Registrar will be pleased to answer inquiries concerning the University and to give advice to anyone who contemplates applying for admission.

IMMIGRATION

All students entering Canada to attend courses at the University should obtain from the Registrar's Office an official letter of acceptance and should present this to the immigration authorities at the port of entry.

British Students.

British students do not require passports to enter Canada but may require them if they wish to return and they are therefore advised to obtain them before leaving for Canada.

AMERICAN STUDENTS.

American students do not need passports. They must, however, bring with them evidence of their American citizenship such as their birth certificate, baptismal certificate, naturalization certificate, or passport. They should register on arrival with the American Consulate General. Students coming from the United States of America who are not citizens of that country should carry evidence that they are legally in the United States, and prior to their return should obtain a re-entry permit from the American Immigration Department.

OTHER STUDENTS.

All other students should carry passports.

Reference: Department of Mines and Resources, Memorandum No. 595335—Imm.

HEALTH SERVICE

MEDICAL EXAMINATION.

To promote their physical welfare all men and women students in the University are required to be medically examined at the beginning of every session. There are no exceptions to this rule.

The medical examinations are conducted daily for a period of about two weeks at the beginning of the session. Subsequently special periods may be arranged for students who register late. The hours of all examination periods are announced on the notice boards throughout the University at the beginning of the Session.

Any student who fails to be examined during the regular period of medical examinations is fined $5.00. If the student does not report for examination during the week following the regular period, the fine is increased to $10. If after another week he has not reported, he is suspended from the University.

Re-examinations are held frequently throughout the session for those students who are of low category or who are suffering from physical disability.

Students may take part in competitive athletics or other forms of exercise only if considered physically fit to do so by the University's medical officers.

VACCINATION.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five

years. Failing this, students must be vaccinated at once in a manner satisfactory to the medical examiner.

The penalties for non-compliance with this regulation are those stated above for the medical examination.

Health Service.

The object of the Department of Physical Education is to make and keep the students physically fit. To this end numerous voluntary activities are organized so that every student may participate in some form of physical activity and recreation.

Provision is made by the Department for the care of the health of undergraduates *during the session* but not during vacations. If a student's admission to hospital is requisitioned for by the Department, but not otherwise, one half of all public ward charges is paid by the University, provided that the total obligation assumed by the University does not exceed $125 in any one session for any one student. Should a student desire private accommodation, the difference in cost must be borne by him. A student who receives treatment by a private practitioner without having first obtained a requisition form from the Department, must bear all expenses involved. A student who has received medical attention as the result of sickness or injury must be declared fit by the University Medical Officer before he may resume participation in University physical activities.

The University's contribution towards hospital expenses is made only when the illness or other condition requiring hospital treatment was not present or was unknown or undetected at the time of admission.

The University is not responsible for damages of any kind resulting from accidents or athletic injuries which may occur or for the medical or hospital expenses incurred by any person suffering an accident or athletic injury. If, however, in any such case, a recommendation is made in writing by the Department of Physical Education, but not otherwise, the University may pay the whole or such portion of the medical or hospital expenses as is covered by such written recommendation. All cases of athletic injury requiring medical treatment or hospital accommodation must be reported immediately to the Director or the University Medical Officer. In cases of emergency, the Royal Victoria Hospital or the Montreal General Hospital accepts cases but these must be reported to the Department of Physical Education, as well as to the Athletics Manager, within forty eight hours.

No dental treatment is supplied by the University.

A leaflet concerning health service and the general work of the Department is given to every student at the beginning of the session.

Partial students are entitled to the above services on payment of a special fee.

BOARD AND RESIDENCE

WARNING

It is possible that Douglas Hall may be required during the session of 1943-44 to house soldiers taking special training courses at the University, or for other war purposes. If this happens the University will endeavour to help out-of-town students to find suitable alternative accommodation.

I. For Men

Douglas Hall.

Douglas Hall, the University residence for men, was opened in September, 1937. It is built on the staircase plan, each student normally having his own study-bedroom and sharing a sitting room with two other men, the three study-bedrooms and the sitting room forming a self-contained and separate suite. There are also a limited number of separate study-bedrooms. Meals, under the supervision of a qualified dietitian, are served in the attractive refectory and residents have in addition the use of adequate common rooms, play rooms, etc. Application forms may be obtained from the Warden's Office.

Hall Fees, Including Board and Residence:

FACULTY	PER SESSION
Arts and Science, Engineering, and Law	$360.00
All years of Dentistry and Medicine	420.00

One half the fee is payable at the beginning of the session, and the balance on the 1st of February.

Lodgings.

Before the opening of the session each year a list of Approved Lodgings which have been inspected by a representative of the University is issued by the Lodgings Committee. This list which gives details of rooms, meals, prices, etc., may be consulted in the Registrar's Office, the Students' Union, and other University Buildings. The list is not sent by mail.

The cost of board and lodging in approved rooms varies from $40 to $60 per month. Separately, good board costs from $25, and a room from $15 upwards per month.

Board is furnished in the McGill Union at low rates.

Board and lodging for men may also be obtained in the Diocesan College, and the Presbyterian College, which are affiliated with the University.

II. For Women

THE ROYAL VICTORIA COLLEGE

Founded and Endowed by the late Rt. Hon. Baron Strathcona and Mount Royal

The Building.

The College building, surrounded by garden and tennis courts, was erected in 1899 at the head of Union Avenue upon land adjacent to the University Campus. It was enlarged by the erection of a new wing in 1930-31.

The building provides an academic, administrative, and recreational centre for resident and non-resident students. It is situated on Sherbrooke Street, in close proximity to the University buildings, and within easy reach of Mount Royal Park. The building is fire-proof, and much thought and artistic care have been given to furnishing and decoration.

The College contains study-bedrooms for 110 students, with reception rooms and a modern infirmary. An adequate number of resident tutors live in the College.

Each student has a room of her own. These are completely furnished and no article of furniture need be brought by the students.

Admission.

Students are required to enter on the roll book of the College their names, home addresses, and addresses in Montreal. Students not residing with their parents or guardians in Montreal are expected to apply for residence at the College. Those who do not so apply are required to submit their plans for residence to the Warden and to obtain written approval.

No sanction can be given to establishments of students in apartments or elsewhere unless such households are presided over by a parent or other responsible person approved by the University. All students entering the University for the first time are required, according to municipal regulations, to present a certificate or other satisfactory evidence of successful vaccination. No student who has an infectious illness or who comes from a house in which there has been an infectious illness within a month, may enter or return to the College without giving notice and obtaining the consent of the Warden. The health of the residential students is in charge of a physician, Dr. R. H. M. Hardisty, who may be consulted, free of charge, by arrangement with the Warden. Every student applying for admission to residence is required to fill in an entrance form and to forward a medical certificate on a form provided by the College.

Students of the College have the use of the University Library. There is also a College Library, in charge of a trained Librarian, comprising works of general literature and the chief stated books required for

the University curricula. The College Library and Reading Room are open to resident students from 9 a.m. to 11 p.m. and to non-resident students from 9 a.m. to 6 p.m. (on Saturdays from 9 a.m. to 1 p.m.).

The Warden's business hours are 10 a.m. to 1 p.m.; at other times, by special appointment. She will be glad to meet all students before the opening of the session and to discuss their plan of work then or at any other time during the session.

Application for admission should be addressed to the Warden, Royal Victoria College, Montreal.

BOARD AND RESIDENCE.

Residence in the College is open to graduate students, undergraduates, and, in exceptional circumstances, to partial students. Application for residence should be made early, as accommodation in the college is limited. *No room is assigned for a shorter period than the University Session.* The charge for board and residence, in addition to the sessional fee for tuition, is $450 ($175 for room, $275 for board). This may be paid in two equal instalments of $225 each, in October and February. Room rent includes all expenses of heat and light. These charges cover the period of the University session from September 27th to the close of the examinations (for members of the graduating class, to the day after Convocation). A deposit fee of $20.00 is required when a room is reserved, and is deducted from the charges for the first term.

Students entering earlier or remaining later for purposes of instruction, practice teaching, or examination are charged an additional fee of $1.50 a day.

Notice of withdrawal should be given at the close of the session, or no later than September 1st. Rooms are not reserved for students whose standing at the end of the session does not entitle them to proceed to the next year.

RADIOS.

No radios may be installed in the College unless they are approved by recognized fire underwriters. Midget sets are not so approved.

FEES

I. UNIVERSITY FEES

These fees include all the regular charges of the University for tuition, health service, registration, libraries, laboratories, physical education, sports, games, and graduation. The only additional fees are (1) Caution Money which is returnable (*see page 98*) and (2) the Students' Society Fee (*see page 98*).

FULL-TIME REGULAR STUDENTS.

Arts		$230.00
Science		250.00
Engineering		275.00
Medicine (British students)		375.00
Medicine (Non-British students)		475.00
Dentistry (British students)		325.00
Dentistry (Non-British students)		365.00
Law		250.00
Music		225.00
Library School		165.00
Commerce		250.00
Graduate Faculty	145.00	165.00*
School of Physical Education		215.00
School for Graduate Nurses		165.00

*The higher fee if laboratory courses are taken.

CONDITIONED STUDENTS.

Special fee for an additional course repeated or substituted (one full course or two half courses) $10.00

LIMITED UNDERGRADUATES IN THE FACULTY OF ARTS AND SCIENCE.

First and Second Years, per course	$55.00
Other years, per course	65.00

PARTIAL STUDENTS.

Per hour of instruction per week for a full course:—

Arts and Science	$20.00
Commerce	20.00
Engineering	10.00

The maximum fee for a partial student is the full undergraduate fee.

Information concerning the fees payable by partial students taking other courses may be obtained from the Bursar's office.

Partial students pay $5.00 for Athletics and are entitled to use the outdoor facilities, tennis courts, rinks, etc. If they desire the full athletic and health service privileges of a regular student the fee payable is $20.00. Such students must be medically examined at the time of registration.

Partial students who pay the full undergraduate fee are entitled to the use of the Student Health Service and all facilities of the Department of Physical Education enjoyed by regular students.

PAYMENTS BY INSTALMENTS.

All fees may be paid in two instalments, one at the beginning of the session and one in January. In such cases the fees stated above are increased by an instalment fee of Five Dollars.

II. Special Fees

Late registration (first week) extra	$ 5.00
Late registration (second week) extra	10.00
Late payment fee (after specified date)	2.00
Fine for late medical examination (*see page 92*)	5.00 or 10.00
Graduation *in absentia*	10.00
Duplicate diploma	10.00
Certified copy of student's record	1.00
Additional copies (at same time)	.50
Certificate of exemption from Matriculation	2.00
Supplemental examinations, each paper	10.00
Rental of microscope (*for students in Dentistry*)	7.50

McGill graduates and graduates of other Universities may use the University Library on payment of an annual fee of $5.00.

III. Caution Money

Every student is required to make a deposit of $10 as Caution Money to cover damage to furniture, apparatus, books, etc. This amount, less deductions, is returned at the close of the session. Students in the Graduate Faculty taking Chemistry make a deposit of $20.00.

IV. Students' Society Fees

An annual fee of $10 is payable by all men undergraduates and an annual fee of $8 is payable by all women undergraduates for the support of student organizations.

The men's fee is distributed as follows: McGill Union $3.50; McGill Daily $1.50; Students' Executive Council $4.00; Undergraduate Society $1.00.

The women's fee is distributed as follows: Women's Union $2.50; McGill Daily $1.50; Students' Executive Council $4.00.

Fees for the use of the gymnasium, the rinks, and tennis courts, and free admission to all home games of University teams are included in the University Fees given on page 97.

GENERAL REGULATIONS

1. Fees are due and payable at the Bursar's Office at the beginning of the session in September or October, and the second instalment is payable in January. For exact dates see the announcements of the separate Faculties.

2. Domicile in general determines whether a student pays the British or the Non-British fees in Medicine and Dentistry. A student who is uncertain which rate he is required to pay should consult the Registrar.

Further details concerning fees in the Faculty of Graduate Studies and Research are given in the Announcement of that faculty.

REGULATIONS CONCERNING REMISSION OF FEES TO STUDENTS WHO LEAVE THE UNIVERSITY DURING THE COURSE OF THE ACADEMIC YEAR.

1. In the case of students who, in spite of the fact that they leave the University before the end of the academic year, receive full credit for the year towards their degree, there shall be no refund of fees.

2. In the case of students who leave during the academic year and do not receive credit beyond the period of their attendance, the fees shall be remitted on the following basis:

   (a) In those Faculties where the academic year is divided into two terms, half of the annual fees shall be remitted to a student who leaves prior to the beginning of the second term.

   (b) In those Faculties where the year is divided into three terms, one-third of the fees shall be returned for each term that begins after the departure of the student.

3. No fees shall be refunded for any term during which the student has attended classes, even though he leaves before the term has finished.

4. Board and residence fees are payable for the full academic year and shall not be refunded.

5. Students' Activities fees shall not be refunded.

EXPENSES

It will be seen that each student pays annually three fees (1) his inclusive University fee (2) a Student's Activity fee (3) a caution money deposit. There are no other regular fees and the only extras are for late registration, for graduation *in absentia*, etc., as listed above. Consequently the expenses of a student may be estimated by adding these three fees and

the cost of board and lodging (*see pages 94 to 96*). Books are necessarily a variable expense, but probably $30 a year would be about their average cost. Personal expenditure upon clothes, amusements, etc. is still more variable and no useful estimate is possible.

PART-TIME EMPLOYMENT

The Students' Council runs an Employment Agency which helps students to obtain summer work and, when possible, part-time work during the session. Students taking a regular degree course generally have insufficient leisure to make heavy part-time work during the term advisable, and they are recommended not to rely upon earning any money while actually at college.

WAR SERVICE PROGRAM FOR WOMEN

According to a regulation of Senate, all women undergraduates are required to devote four hours per week to training within the War Service Program.

All students new to the University must enrol for the first year basic course. Students who have completed the first year course may choose from the several electives offered in the second, third and fourth years. Details of the courses may be obtained at registration time.

EXEMPTION: Exemption from a part or all of the Program may be granted for medical reasons. Only if the candidate has a very strong claim to consideration will exemption be granted on other grounds. Applications are to be made in writing to the Exemptions Committee and addressed to the Chairman of the War Service Program for Women.

REGISTRATION: Registration for War Service Program courses is to be made at the same time as for academic courses.

SPORTS FOR MEN

Normally there is organized competition with other Canadian and American Colleges in sixteen or seventeen different sports, but intercollegiate athletics have been suspended for the duration of the present war. In their place the University has organized a wide programme of intra-mural competition and voluntary games. The Sir Arthur Currie Memorial Gymnasium, opened in 1939, provides accommodation for many indoor activities, while Mount Royal in Montreal, and the

Laurentian Mountains north of Montreal, provide excellent skiing country. A student in good health thus has ample opportunities for exercise and pleasant recreation.

SPORTS FOR WOMEN

For women students there is a wide choice of voluntary sports and recreations including archery, basketball, dancing, gymnastics, skating, skiing, swimming and tennis. Special care is taken that no student undertakes any exercise for which she is physically unsuited.

CALENDAR FOR THE SESSION 1943–44

1943

September 1st, Wednesday. Public Health Nurses report for field work.
Summer School in Mechanical Engineering begins.

September 2nd, Thursday. Last day for filing graduate theses for Autumn Convocation.

September 7th, Tuesday. Students register in 1st year of Medicine and in 1st year of Dentistry.
High School Diploma Students report for training in the Department of Education.
Matriculation Examinations begin.

September 8th, Wednesday. Lectures begin in 1st year of Medicine and in 1st year of Dentistry.
Seminars and field work begin for High School Diploma Students.

September 13th, Monday. Last day for reports on Ph.D. theses.
Supplemental Examinations begin in Arts and Science, Commerce, Engineering and Architecture.
Students register in the School of Physical Education.
Architectural Sketching School begins.
Conservatorium of Music opens for practical work.

September 14th, Tuesday. Lectures begin in the School of Physical Education.

September 14th, Tuesday, to September 18th, Saturday. Final orals for Ph.D.

September 16th, Thursday. Special Summer School in Surveying begins.

September 17th, Friday. Teaching and Supervision and Administration students report for field work in the School for Graduate Nurses.

September 17th, Friday, and September 18th, Saturday. Students register in the Library School.

September 18th, Saturday. Last day for reports on Masters' theses.

September 20th, Monday. Lectures begin in the Library School.

September 22nd, Wednesday, to September 29th, Wednesday. Students register in Law.

September 27th, Monday. Lectures begin in Music.
Freshman Day, Faculty of Arts and Science.

September 28th, Tuesday and September 29th, Wednesday. Students register in Arts and Science, Commerce, and the School for Graduate Nurses.

September 28th, Tuesday. All students register in Engineering and Architecture.

September 30th, Thursday. Lectures begin in Arts and Science, Commerce, Engineering, Architecture, Law, Agriculture, Household Science, Graduate Studies and Research, and the School for Graduate Nurses.

October 2nd, Saturday. Last day for receiving candidates' applications and Sessional registration forms in the Dean's Office, Faculty of Graduate Studies and Research.

October 6th, Wednesday. Founder's Day. Convocation.
(James McGill born October 6th, 1744, died December 19th, 1813.)

*.....Thanksgiving Day. No lectures.

October 16th, Saturday. Last day for registration and payment of fees in the Faculty of Graduate Studies and Research.

October 30th, Saturday noon. Last day for handing in Summer Essays and submitting Certificates regarding summer employment in the Faculty of Engineering.

December 1st, Wednesday, to December 10th, Friday. Examinations in French and German for Ph.D. students.

December 10th, Friday. First term ends in the Library School.

December 15th, Wednesday, to December 17th, Friday. Examinations in the Library School.

December 18th, Saturday. Last day of lectures in all Faculties and Schools.

1944

January 3rd, Monday. Lectures resumed in Medicine, Dentistry, Law, Music, Graduate Studies and Library School.

January 4th, Tuesday, to January 8th, Saturday. First term examinations in Arts and Science, Commerce, Engineering, Architecture, Physical Education, and the School for Graduate Nurses.

January 8th, Saturday. First term ends in Law.

January 10th, Monday. Second term begins in Arts and Science, Commerce, Engineering, Architecture, Law, Physical Education and the School for Graduate Nurses.

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*Thanksgiving Day will be a University Holiday. The date will be proclaimed later by the Dominion Government.

February 10th, Wednesday. Founder's Day at Macdonald College. (Sir William Macdonald born February 10th, 1831, died June 9th, 1917).

March 30th, Thursday, to April 6th, Thursday. Library School trip.

April 6th, Thursday. Lectures end in all years of Engineering and Architecture.

April 7th, Friday, to April 10th, Monday (inclusive). Easter Vacation.

April 11th, Tuesday. Examinations begin in all years of Engineering and Architecture.

April 15th, Saturday. Last day for filing Ph.D. Theses.

April 22nd, Saturday. Lectures end in all Faculties and Schools except Medicine, Dentistry, the Library School, and Music. Last day for filing Masters' theses not involving experimental work.

April 25th, Tuesday. Examinations begin in Arts and Science, Commerce, Law, Physical Education, Agriculture, Household Science, and the School for Graduate Nurses.

April 26th, Wednesday. Examinations begin in Theory of Music.

April 28th, Friday. Lectures end in the Library School.

April 29th, Saturday. Last day for filing Masters' theses involving experimental work.

May 3rd, Wednesday. Examinations begin in the Library School.

May 4th, Thursday. Practical examinations begin in Music.

May 5th, Friday. Examinations begin in Higher Theoretical Music. Last day for reports on Ph.D. theses and for reports on graduate examinations.

May 6th, Saturday. Lectures end in Music.

May 6th, Saturday, to May 13th, Saturday. Final orals for Ph.D.

May 8th, Monday, to May 19th, Friday. Practice work in the Library School.

May 10th, Wednesday. Last day for reports on Masters' theses.

May 25th, Thursday. Convocation.

June 12th, Monday. Matriculation Examinations begin.

McGILL UNIVERSITY

MONTREAL

GENERAL ANNOUNCEMENT

1943 - 1944

INDEX

	PAGE
Administrative Officers	109
Admission:	
Age of	118
Application for	118
To Arts and Science	118
To Engineering	114
To Faculties and Schools	112
To Professional Faculties	121
To Upper Years	117
Advanced Courses	120
Advanced Standing	117, 121
Advisers	120
Age of Admission	118
Agriculture, Faculty of	115
Application Forms	117, 118
Architecture, School of	114
Arts and Science, Faculty of	112, 118
Attendance	120
Bursaries	117, 121
Classes of Students	119
Commerce, School of	112, 118
Degrees	112, 117
Degrees, General	120
Degrees, Honour	120
Dentistry, Faculty of	115
Engineering, Faculty of	114
Entrance Requirements (see Admission).	
Examination Marks	120

PAGE

Faculties and Schools 112, 117
Faculty of Agriculture 115
" " Arts and Science 112, 115
" " Dentistry 118
" " Engineering 114
" " Graduate Studies and Research 115
" " Law 113
" " Medicine 112
" " Music 115
French Summer School 117

General Degrees 120
Graduate Nurses, School for 116
Graduate Studies and Research, Faculty of 115

History of the University 111
Home Economics (see Household Science).
Honour Degrees 120
Household Science, School of 116

Law, Faculty of 113
Library School 116
Limited Undergraduates 119

McGill College 112
Marks, Examination 120
Medicine, Faculty of 112
Music, Faculty of 115

PAGE

Partial Students 119
Period of Study 119
Physical Education, School of 116
Professional Faculties 121

Registration 119
Requirements for Admission (see Admission).

Scholarships 117, 121
School, Library 116
School of Architecture 114
" " Commerce 112, 118
" " Household Science 116
" " Physical Education 116
" for Graduate Nurses 116
Schools 112
Summer School in French 117

Teachers, Training of 117
Terms 121

Undergraduates 119

Women Students 118

ADMINISTRATIVE OFFICERS

THE UNIVERSITY

Principal and Vice-Chancellor.....F. Cyril James, Ph.D., D.C.L. LL.D.
Bursar.....William Bentley, C.G.A.
Registrar.....T. H. Matthews, M.A.
Librarian.....G. R. Lomer, M.A., Ph.D., F.L.A.
Warden of the Royal Victoria College.Muriel V. Roscoe, M.A., Ph.D.
Warden of Douglas Hall.....R. D. Maclennan, M.A.

FACULTY OF ARTS AND SCIENCE

Dean.....Hon. Cyrus Macmillan, M.A., Ph.D., M.P.
Acting-Director of the School of Commerce.....E. F. Beach, M.A., Ph.D.

FACULTY OF MEDICINE

Dean.....J. R. Fraser, M.D., C.M., F.R.C.S. (C), F.A.C.S., F.R.C.O.G.
Secretary.....J. F. McIntosh, B.A., M.D., C.M.

FACULTY OF ENGINEERING

Dean.....J. J. O'Neill, M.Sc., Ph.D., F.R.S.C.
Secretary.....R. DeL. French, B.Sc., C.E.
Director of the School of Architecture..John Bland, B.Arch., A.R.I.B.A.

FACULTY OF DENTISTRY

Dean.....A. L. Walsh, D.D.S.

FACULTY OF MUSIC

Dean.....Douglas Clarke, M.A., Mus.B., F.R.C.M., F.R.C.O.
Vice-Director and Secretary of the Conservatorium.....R. de H. Tupper.

FACULTY OF LAW

Dean.....C. S. Le Mesurier, K.C., B.A., B.C.L.

Secretary.....John P. Humphrey, B.Com., B.A., B.C.L.

FACULTY OF GRADUATE STUDIES AND RESEARCH

Dean.....D. L. Thomson, M.A., Ph.D., F.R.S.C.

DEPARTMENT OF PHYSICAL EDUCATION

Director.....A. S. Lamb, B.P.E., M.D.

University Medical Officer.....Frank G. Pedley, M.C., B.A., M.D., C.M., Dr. P.H.

Physical Director for Women.....Iveagh Munro, M.S.P.E., B.Sc., M.A.

Athletics Manager.....Hay Finlay, Dip. M.S.P.E. (during the absence on war service of Col. D. S. Forbes).

SCHOOL FOR GRADUATE NURSES

Director.....Marion Lindeburgh, R.N., M.A.

MACDONALD COLLEGE

Vice-Principal of Macdonald College and Dean of the Faculty of Agriculture.....W. H. Brittain, M.S. in Agr., Ph.D., F.R.S.C.

*Dean, School for Teachers**.....Sinclair Laird, M.A., B.Phil., D.Paed.

Director, School of Household Science....Margaret S. McCready, B.A.

Secretary.....T. Fred. Ward.

Registrar.....A. B. Walsh, B.Sc. (Agr.).

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*This School has been moved to Strathcona Hall, 772 Sherbrooke St. W., for the duration of the War.

McGILL UNIVERSITY

A BRIEF DESCRIPTION

McGill University, founded under a bequest of the Hon. James McGill, a prosperous Montreal merchant who died in 1813, was established as a university by Royal Charter in 1821. It is privately endowed, the trustees of its funds being the Board of Governors who constitute "The Royal Institution for the Advancement of Learning".

The University has eight faculties and six schools. Particulars of these are given on pages 112 to 117. Seven of the faculties are situated in Montreal where the University Campus lies on the lower slopes of Mount Royal, the hill from which the city takes its name. Macdonald College at Ste. Anne de Bellevue, about twenty-five miles from Montreal, is an incorporated College of the University, and houses the Faculty of Agriculture and the School of Household Science. The School for Teachers has been moved from Macdonald College to Montreal for the duration of the War.

McGill University is undenominational and has now for many years been co-educational in most of its faculties and schools. Admission is definitely selective, the number of students accepted into each faculty being limited. In the 1942-43 session the number of men students studying for either degrees or diplomas was 2090 and the corresponding number of women students was 934. These students are drawn from every province of Canada and from many other countries, the connexions with Great Britain, the West Indies, and the United States naturally being strong. At present there are in residence at the University about 22 students from Great Britain and 220 from the United States.

The following pages are intended to give in a condensed form the preliminary information that a student who contemplates entering the University would require, together with the entrance requirements of the various faculties and a list of the certificates accepted. Details of the Junior and Senior Matriculation, the entrance Examination conducted by the University, are given in the Matriculation Announcement. Separate announcements of the several faculties and schools are also published and a list of these is printed on the inside of the front cover. There is also a pamphlet enclosed with this announcement which gives the fees in the various faculties and schools, a description of the University residences for men and women, an account of the Health Service, and a calendar of dates. The Registrar's Office will be pleased to send one or more of these announcements to anyone interested or to answer inquiries.

THE FACULTIES AND SCHOOLS OF THE UNIVERSITY

A Brief Outline With References

Announcements of these faculties and schools giving further details may be obtained from the Registrar's Office.

For fees see the Pamphlet of General Information enclosed with this announcement.

I. McGILL COLLEGE

(Faculty of Arts and Science)

See also page 118.

Degrees Offered: Bachelor of Arts (B.A.)
Bachelor of Science (B.Sc.)
Bachelor of Commerce (B. Com.)

Period of Resident Study in the Faculty: Four years from Junior Matriculation or three years from Senior Matriculation (see Matriculation Announcement pp. 124, 141).

Entrance Requirements: Junior Matriculation for admission to the First Year. Junior and Senior Matriculation with second-class standing for admission to the Second Year. For certificates recognized by the University see pages 122, 123. The entrance requirements for students of American Schools and for students from Great Britain are stated on pages 122, 123.

Application Forms: For application forms apply to the Registrar's Office.

Since the majority of students coming to the University for the first time enter the Faculty of Arts and Science, further details of this Faculty are given on page 118.

II. FACULTY OF MEDICINE

Degree offered: Doctor of Medicine and Master of Surgery (M.D., C.M.).

Diplomas offered: The Diploma in Public Health (D.P.H.). and the Diploma in Veterinary Public Health.

Period of Study in the Faculty for the Degree: Four years.

License to Practice: An interne year or a further year of study is required before the University certifies that a graduate is entitled to take the qualifying examination of any of the licensing boards, so that the length of the full professional course is five years.

Entrance Qualifications: At least three years of university work are required and a complete B.A. or B.Sc. degree is preferred. This pre-medical work must include:—

Physics: One year of general college physics with laboratory work.

Biology: One year of general biology and zoology with laboratory work. (One year of Zoology will be accepted, but Botany alone is not sufficient.)

Chemistry: Two years.

(*a*) One full year's course of general chemistry with laboratory work.

(*b*) One full year's course of organic chemistry with laboratory work.

Students who are preparing for entrance to the Faculty of Medicine are advised that they should not choose subjects which properly belong to the medical course, but should devote their time to securing a thorough preparation in the fundamental scientific and humanistic subjects.

Students are strongly advised to make themselves familiar with the licensing regulations of the province or state in which they intend to practise and to take the necessary steps to become registered. The University requires Canadian students to register with the licensing body of their province before beginning their medical course.

Since the University can accept only a small percentage of those who apply, applications should be made to the Secretary of the Faculty of Medicine as early as possible and in no case after March 1st.

For further details and application forms apply to the Secretary of the Faculty.

III. FACULTY OF LAW

The course in the Faculty of Law is based mainly on the study of the Roman and Civil systems, the curriculum and timetable being arranged on the assumption that a student is devoting his entire time to his university work.

Degree offered: Bachelor of Civil Law (B.C.L.).

Period of Study in the Faculty of Law: Three years.

Entrance Qualifications: Candidates who have completed at least two years in the Faculty of Arts and Science at McGill University will be admitted to the Faculty as degree students without examination. Other candidates must satisfy the Faculty that they possess an equivalent qualification. Candidates, however, who are proceeding to the Bar of the

Province of Quebec must be British subjects, hold the degree of B.A., B.Litt., or B.Sc. from a Canadian or British university, and satisfy the Bar examiners that they have successfully completed "the regular course in philosophy" in an approved university.

Candidates for admission to the Notarial profession must be male British subjects and hold the degree of B.A., B.Litt., or B.Sc. from a Canadian, English or French university.

Further information regarding admission to practice will be found in the Quebec Bar Act, 1925, R.S.Q., chap. 210 (as amended) and the Notarial Code, 1925, R.S.Q., chap. 211 (as amended).

IV. FACULTY OF ENGINEERING

Degrees offered: (1) Bachelor of Engineering (B.Eng.), in the Departments of Chemical, Civil, Electrical, Mechanical, Metallurgical, and Mining Engineering. (2) Bachelor of Architecture (*See below*).

Period of Study in the Faculty: Four years.

Entrance Qualifications: First Year Arts and Science (B.Sc. course), *or* Senior Matriculation in English, Mathematics, Chemistry, Physics and one of Biology, French, German, Greek, History, Latin, Spanish. Students should not contemplate entering the Faculty of Engineering unless they have more than average mathematical ability. The minimum requirements in this subject are stated in the Matriculation Announcement, page 150. For further details see the Announcement of the Faculty of Engineering.

V. SCHOOL OF ARCHITECTURE

(In the Faculty of Engineering)

Degree offered: Bachelor of Architecture (B.Arch.).

Period of Study in the School: Five years.

Entrance Qualifications for 1943 only: Junior Matriculation, either B.A. or B.Sc., with good marks in Elementary and preferably also in Intermediate Mathematics. Students must also satisfy the Director of the School that they have drawing ability.

Commencing with 1944-45 the entrance requirements in Architecture will be identical with those of the Engineering courses (*see above*). The length of the course will be five years, the First Year being identical with the First Year in Engineering.

VI. FACULTY OF DENTISTRY

Degree offered: Doctor of Dental Surgery (D.D.S.).

Period of Study in the Faculty for the Degree: Four years.

Entrance Qualifications: At least two years in Arts and Science, including two years of lectures and laboratory work in Chemistry (inorganic and organic), and one year each of Physics and Biology.

To be qualified to practise in the Province of Quebec, a student must take at least the last year of this pre-dental work in a recognized English university in that Province.

VII. FACULTY OF AGRICULTURE

This faculty is housed in Macdonald College at Ste. Anne de Bellevue, twenty-five miles from Montreal.

Degree offered: Bachelor of Science in Agriculture, B.Sc. (Agr.).

Period of Study in the Faculty for the Degree: Four years.

For entrance qualifications, fees, and further details, see the Announcement of Macdonald College, which may be obtained from the Registrar, Macdonald College, P.Q.

VIII. FACULTY OF MUSIC

Degree offered: Bachelor of Music (B. Mus.).

Diplomas offered: Licentiate in Music (L. Mus.).
Associate in Music (A. Mus.).

Minimum period of study in the Faculty for the Degree: Three years.

For further details see the Announcement of the Faculty of Music.

IX. FACULTY OF GRADUATE STUDIES AND RESEARCH

Degrees offered: Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Commerce (M. Com.). Master of Civil Law (M.C.L.), Doctor of Philosophy (Ph.D.), Doctor of Civil Law (D.C.L.), Doctor of Music (D.Mus.).

For details consult the Announcement of the Faculty of Graduate Studies and Research.

X. SCHOOL OF HOUSEHOLD SCIENCE

In the Faculty of Agriculture

(Women Only)

This is a school within the Faculty of Agriculture.

Degree offered: Bachelor of Science in Home Economics [B.Sc. (H.Ec.)].

Diplomas offered: See Macdonald College Announcement.

Period of Study for the degree: Four years.

Yearly fee for residents of Canada..... $100.00
" " for non-residents..... $125.00

For entrance requirements and other details see the Announcement of Macdonald College which may be obtained from the Registrar, Macdonald College, P.Q.

XI. THE LIBRARY SCHOOL

In the Faculty of Arts and Science

Degree offered: Bachelor of Library Science (B.L.S.).

Period of Study: One year.

Entrance Qualifications: Bachelor's degree.

For details see the Announcement of the Library School.

XII. SCHOOL OF PHYSICAL EDUCATION

In the Faculty of Medicine

(Women only)

Period of Study: Two years in the School leading to a diploma.

Entrance Requirements: First Year Arts and Science *or* Senior Matriculation.

Advanced Course: There is also an advanced course for students with a Bachelor's degree. For details see the Announcement of the School.

XIII. SCHOOL FOR GRADUATE NURSES

In the Faculty of Medicine

Diplomas offered in:

1. Teaching and Supervision in Schools of Nursing.
2. Public Health Nursing.

Advanced Diplomas offered in:

3. Administration in Hospitals and Schools of Nursing.
4. Administration and Supervision in Public Health Nursing.

Entrance Requirements: Junior Matriculation or its equivalent, and graduation from an approved school of nursing.

For the advanced courses satisfactory professional experience is required.

For details see the Announcement of the School.

XIV. FRENCH SUMMER SCHOOL

In the Faculty of Arts and Science

A residential summer school with an Old-Country French Staff. Approximate dates 29th June to 9th August.

Inclusive Fee: $180.00.

For special announcement apply to the Registrar's Office.

XV. TRAINING OF TEACHERS

The Department of Education offers a one-year course to graduates of approved universities who wish to be teachers. Under certain conditions those who complete this course may qualify for the High School Diploma of the Province of Quebec. These conditions are given in the Announcement of the Faculty of Arts and Science. This course under certain conditions (see Announcement of the Faculty of Graduate Studies and Research) may lead later to an M.A. degree in Education.

For details of courses in the School for Teachers, leading to Elementary and Intermediate Diplomas, see the Announcement of Macdonald College.

APPLICATION FOR ADMISSION TO ALL FACULTIES

Application forms for all years in the Faculty of Arts and Science, and for the First Year in Engineering, Medicine, and Dentistry may be obtained from the Registrar's Office. Application for admission to other faculties or years should in the first instance be made by letter to the Registrar.

ADMISSION FROM OTHER UNIVERSITIES

A student of another university applying for advanced standing or for exemption from any subject or subjects which he has already studied, must submit with his application a Calendar of the University in which he has previously studied, a certified copy of his academic record, and a confidential report from an officer of instruction or administration who is familiar with his work.

SCHOLARSHIPS AND BURSARIES

Details of the University Entrance Scholarships and of other scholarships, bursaries and loan funds are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

THE FACULTY OF ARTS AND SCIENCE

For further particulars see the separate announcement of the Faculty.

The undergraduate work of the University in the Humanities, in Social Studies, in the Biological and Physical Sciences, and in Commerce, is done in McGill College, usually called the Faculty of Arts and Science.

For administrative purposes the School of Library Science (*see page 116*) is also a part of this faculty.

Women Students.

Women are admitted to the courses and to the degrees of the Faculty on the same terms as men, but in the more elementary courses they are usually taught in separate classes.

Age of Admission.

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

Entrance Requirements.

Note—The requirement of Senior Matriculation for admission to the First Year of the Commerce courses announced in 1941 will not be put into effect during the present war.

1. A student may apply for admission to the First Year of the B.A., B.Sc. or B.Com. courses after passing in the required subjects of the Junior Matriculation Examination or one of the Examinations recognized by the University as the equivalent of Junior Matriculation. (*See page 122*).

2. A student may apply for admission to the Second Year of the B.A., B.Sc. or B.Com. courses, after passing in the required subjects of the Junior and Senior Matriculation Examinations or their recognized equivalents. (*See page 123*).

Only in exceptional circumstances is a student who has not written the Junior Matriculation admitted by Senior Matriculation.

At least a good average second class standing in Senior Matriculation or its equivalent is required for entrance.

3. Full details of these examinations are given in the Matriculation Examination Announcement. (See also pp. 122, 123).

4. A student with incomplete matriculation qualifications is not admitted as an undergraduate.

Applications for Admission.

All applications to enter the Faculty of Arts and Science must be made on forms which may be obtained from the Registrar's office. Completed applications must reach the Registrar not later than September 10th.

The number of students admitted is limited and the Faculty is not bound to accept applicants who have passed the required examinations.

Classes of Students in the Faculty.

(1) *Undergraduates:* Students with complete matriculation qualifications taking the regular work of their year towards a degree.

(2) *Limited Undergraduates:* Students with complete matriculation qualifications who have been given the permission of the Dean of the Faculty to distribute the four years' work over five or more years (but not more than eight years), on the understanding that the sequence of courses conforms to the regular undergraduate rules and time table.

Limited Undergraduates are not eligible for scholarships, exhibitions, bursaries or prizes of any description and may not read for an Honour Degree.

(3) *Partial Students:* Students not registered as proceeding to a degree who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the Chairmen of the Departments concerned that they have sufficient ability to do the work of the courses they desire to take. A student who has tried and failed to matriculate is not allowed to register as a partial student. If a partial student is accepted subsequently as a regular undergraduate, examinations he has passed as a partial may, by permission of the Faculty, be counted towards his degree.

Period of Study.

The regular length of the course for a B.A., B.Sc. or B.Com. degree is four years from Junior Matriculation, or three years from Senior Matriculation. Students from other universities are sometimes admitted to the upper years, but the bachelor's degree is never conferred upon a student who has spent less than two years in the Faculty.

Registration.

Monday the 27th of September is Freshman Day and all students entering the Faculty of Arts and Science for the first time are required to attend a meeting to be held in Moyse Hall on that morning at 9 o'clock.

Registration in all years will start on Tuesday the 28th of September and will finish on the following day.

After September 29th all registration is done in the Registrar's Office and a special late registration fee must be paid (see General Information Pamphlet).

No student is admitted after October 12th except by special permission of the Dean.

The special regulations for women students are given in the General Information Pamphlet.

ADVISERS.

Students may consult the Dean, the Group Chairmen, or the Assistant to the Dean, at any time. Women students may also consult the Warden of the Royal Victoria College.

ADVANCED COURSES IN THE FIRST YEAR.

The Departments giving instruction in the First Year offer special lectures or work of a more advanced character to students with adequate qualifications.

These advanced courses are generally arranged by the Departments when lectures actually commence and there is in such cases no separate registration for them.

Students in the First Year who have the necessary qualifications may be permitted by the Dean to take one or more Second Year courses.

GENERAL DEGREES AND HONOUR DEGREES.

An undergraduate in the Faculty of Arts and Science may proceed to a General Degree, involving the study of a fairly wide range of subjects with a limited amount of specialization, or to an Honour Degree which, after the Second Year, necessitates almost complete specialization in either one or two subjects.

For details see the Announcement of the Faculty of Arts and Science.

Students in the School of Commerce who specialize in Economics may obtain Honours in this subject. Other students in the School may be awarded distinction or great distinction.

ATTENDANCE.

Students in the First and Second Years are required to attend at least seven-eighths of the total number of lectures and of the total number of laboratory periods in each course. Attendance at lectures in the Third and Fourth Years is voluntary, but laboratory periods and conferences in all years are compulsory.

EXAMINATION MARKS.

The pass mark in all examinations is 50 per cent, and the marks for first and second class standing are 80 per cent and 65 per cent respectively.

THE TWO TERMS.

The session is divided into two terms, the first starting on the 1st of October and the second starting on the 10th of January. (For Calendar see the General Information Pamphlet).

The University does not admit new students in January.

ADMISSION TO THE SECOND AND THIRD YEARS.

Applications for entrance to the Second and Third Years of the Faculty should be made to the Registrar's Office on the proper forms, and must be accompanied by complete details of previous school and university work. (*See also page 117*).

To obtain a bachelor's degree a student must spend at least two years in McGill College.

CONCERNING STUDENTS WHO INTEND TO PROCEED INTO THE PROFESSIONAL FACULTIES.

Each undergraduate in the Faculty is required to register for one of the three bachelor's degrees offered (see page 112), and, unless otherwise instructed by his Dean, must follow the regular work of his year toward this degree.

Students intending to transfer into one of the professional faculties before graduating in Arts and Science should make themselves familiar with the entrance requirements of the faculty they seek to enter and should see that the courses they choose conform with these requirements. (See pages 112 to 117).

Students who have completed three years in the Arts courses and two years in the Faculty of Medicine may apply to the Faculty of Arts and Science for the B.A. degree if during both their second and third years in this Faculty at least one of the required premedical sciences was taken in addition to the regular B.A. curriculum as an extra subject. Applications for the B.A. degree from students in Medicine who completed three years in the Arts courses before the regulation was enacted, will be considered by the Faculty on their merits.

Students completing three years in either the Arts or the Science courses of the Faculty of Arts and Science and two years in Medicine are entitled to apply to the Faculty of Arts and Science for the degree of B.Sc. Students will not however be recommended for the B.Sc. degree unless they have satisfied the specific requirements for that degree or their equivalent.

SCHOLARSHIPS AND BURSARIES.

A separate announcement giving details of scholarships and bursaries may be obtained from the Registrar's Office.

EXAMINATIONS RECOGNIZED FOR ADMISSION TO THE UNIVERSITY

McGill University recognizes a number of public examinations as equivalent under certain circumstances to its own Junior and Senior Matriculation for Admission to the Faculty of Arts and Science and other faculties and schools.

The Admissions Committee requires generally that:

(1) The certificate has been obtained under no easier conditions than those of the McGill Matriculation Certificate.

(2) The subjects of the examination and the school course followed are those the University requires.

(3) The school records and confidential reports are satisfactory.

Candidates who wish to enter by certificate should under no circumstances come to the University without first having obtained an official acceptance of their application.

The following gives a brief outline of the certificates and examinations accepted. For complete details see the Matriculation Examinations Announcement.

I. For admission to the First Year of the B.A., B.Sc., B.Com., B.Sc. (Agr.), B.Sc. (H.Ec.), and B. Arch. courses.

Canada.

The recognized Junior Matriculation or equivalent examinations of the various provinces.

Great Britain.

The School Certificate of the recognized examining bodies with five credits.

The London University Matriculation Examination.

The Certificate of Fitness of the Scottish Universities Entrance Board.

United States.

The tests of the College Entrance Examination Board.

Certificates from accredited High Schools are recognized only if the Candidate occupies a position in the highest fifth of the graduating class and is specially recommended by the School authorities.

Miscellaneous.

Other certificates, such as those issued by universities or public examining boards will be judged on their merits and accepted if they meet all the University requirements.

II. For admission to the Second Year of the B.A., B.Sc., B.Com., B.Sc. (Agr.), B.Sc. (H.Ec.) courses, and the First Years of the Faculty of Engineering, and the School of Physical Education.

Canada.

The recognized Junior and Senior Matriculation or equivalent examinations of the various provinces.

Great Britain.

The Higher Certificates of the recognized examining bodies.

United States.

Completion of one year in an approved college with a suitable syllabus and good grades.

McGILL UNIVERSITY

MONTREAL

School Certificate Examinations

JUNE and SEPTEMBER

1944

McGILL UNIVERSITY

MONTREAL

PAGE

Accountancy 160

Admission:

To Arts and Science 138, 158-9

To Engineering 159

Algebra 152, 166

Arithmetic 151

Biology 140, 161

Botany 142

Certificates Recognized 136, 157

Chemistry 143, 163

Co-ordinate Geometry 166

Drawing 144

English 145, 163

Fees 133

French 145, 164

Geography 146

Geometry 152

German 147, 164

Greek 148, 164

History 148, 165

Junior School Certificate 135

Latin 150, 166

Mathematics 151, 166

Music 153, 166

Physical Geography 153

Physics 153, 167

Spanish 155, 167

Senior School Certificate 156

Trigonometry 153, 166

THE NEW SCHOOL CERTIFICATE

As the result of a careful study of the functions of its public examinations, McGill University will offer in 1944 two new certificates, the Junior School Certificate and the Senior School Certificate. These certificates will be awarded to candidates who pass examinations in subjects which form a reasonable course of study for a secondary school pupil.

Up to the present the only certificates the University has awarded have been the Junior and the Senior Matriculation certificates. To obtain one of these a boy or girl had to qualify for admission to the first or the second year of a regular university degree or diploma course. This has meant that school curricula have been influenced by the entrance requirements of university faculties. The University will no longer offer either the Junior or the Senior Matriculation certificates.

The new school certificates will be obtainable on easier terms than the former matriculation certificates and candidates will have a much wider choice of subjects, so that schools will have far greater freedom in planning their curricula. The new certificates will thus be similar to those of the recognized English School Examinations Board and to the Quebec High School Leaving Certificate.

It must be emphasized, however, that the entrance requirements of the various faculties have not been changed either as to the number of papers to be written or the general standard to be reached. In other words, candidates will be able to obtain the new certificates without qualifying for admission to the University. To matriculate, i.e., to enter the University, a candidate will in 1944, and afterwards, still have to write the papers now required by the various faculties. The nature of the papers will not, in general, be changed, nor will there be any lowering of standards in individual subjects; in fact, the pass-mark is being raised to 50% in every paper. The school certificates will, however, be granted to those who pass in a smaller number of papers than those required for matriculation. At the same time the University Committee in charge of the examinations is conducting a series of conferences upon the various syllabi. Any modifications that may be introduced will be stated in the Annual Announcement and adequate notice of such alterations will be given. Details of the regulations governing the examinations and of the requirements for the new certificates follow:

For the recognition of these Certificates for admission into the various faculties of the University, see pages 136 and 157.

SCHOOL CERTIFICATE EXAMINATIONS

GENERAL REGULATIONS

June and September Examinations.

The School Certificate examinations are held in June and September —in June at McGill University and local centres; in September at McGill University and one or two selected outside centres. The time-tables for these examinations are issued in February each year.

All inquiries, except from candidates in Great Britain, relating to the examinations should be addressed to the Registrar of the University.

Candidates in Great Britain.

Candidates in Great Britain should consult the Honorary Representative of the University, W. A. Bulkeley-Evans, C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C. 4.

Application Forms.

Every candidate for examination is required to fill in an application form and return it to the Registrar's Office with the necessary fee before the 20th of May or the 20th of August for the June or September examinations respectively. After these dates applications may be accepted for the Montreal centre only. A special late fee of $1.00 is charged for such applications.

Fees.

Junior Examination. The Junior Examination fee is $1.25 per paper with a maximum fee of ten dollars.

Senior Examination. The Senior Examination fee is three dollars per paper with a maximum fee of fifteen dollars.

Regulations.

In centres outside Montreal candidates may be required to pay the whole or part of the expenses of invigilation.

A fee of $1.00 is charged for late applications. (*See above*).

No refunds are paid to candidates after the last day of registration (20th May or 20th August), excepting only when a candidate is absent throughout the whole examination on account of illness, and a medical certificate to this effect is presented within four weeks of the close of the examination.

Fees paid for one examination cannot be credited towards a subsequent examination.

CERTIFICATES.

The examinations may be taken in parts but the University will issue a School Certificate only on the results of examinations written within a period of sixteen months.

This rule also applies to the recognition of certificates granted by other recognized examining bodies.

School Certificates are issued only to candidates who have passed the complete University School Certificate Examination.

TEXT-BOOKS.

Junior School Certificate.

The University does not recommend or refer to specific text-books in the syllabi of its Junior School Certificate Examinations, except in Mathematics. Set "texts", however, form an essential part of the language papers.

Senior School Certificate.

The University has also discontinued the recommendation of some of the Senior School Certificate text-books, but in other subjects it is considered desirable that the work should follow closely that of the corresponding course in the first year of the Faculty of Arts and Science, and in such subjects the text-books used in the University courses have been retained as Senior School Certificate text-books for the present.

CONSULTATION WITH DEPARTMENTS.

The University Departments concerned will be pleased to give school principals or specialist teachers advice concerning methods or books of reference, and to discuss problems that may arise in connexion with the syllabi for either the Junior or the Senior School Certificate Examinations. The Registrar will be glad to arrange such conferences.

PREVIOUS PAPERS.

Books containing the examination papers set in either June or September of any one year may be obtained from the Bursar's Office at 25c. a copy.

PUBLICATION OF RESULTS.

Each candidate will receive a statement of his results as soon as they are ready. The certificates are sent to successful candidates a little later.

A list of the successful candidates is published in the Press. This list gives the class of the certificates obtained and any distinctions gained, but does not give any relative order of merit within the three classes.

The actual marks in each paper are sent to each candidate and are given on the back of the certificate but are not otherwise published.

JUNIOR SCHOOL CERTIFICATE

REQUIREMENTS FOR THE CERTIFICATE

To obtain a School Certificate a candidate must complete the requirements within a period of sixteen months. This allows four attempts in the June and September examinations of two successive years.

For first and second-class certificates two attempts only are allowed. For details, see page 136.

The pass mark in each paper is fifty per cent. To obtain the certificate a candidate must write eight papers chosen according to the regulations that follow and must *either* pass in every paper *or* obtain an average of at least sixty per cent in the eight papers with no individual mark below forty per cent.

COMPULSORY PAPERS

English Literature
English Composition
*Elementary French

OPTIONAL PAPERS

Five papers on optional subjects must be chosen from not less than *two* of the three groups below:

GROUP I

Algebra
Geometry
Chemistry
Physics
Botany
Biology
Intermediate Algebra
Intermediate Trigonometry
Advanced Arithmetic

GROUP II

Advanced French
Oral French
German (two papers)
Spanish (two papers)
Latin (two papers)
Greek (two papers)

GROUP III

General History *or* British History
Canadian History (not offered until 1945)
Geography
Art
Music

A candidate may write more than eight papers; in fact ten are required for entrance to the University (see page 138), but the certificate is awarded on the eight papers only. If a successful candidate writes more than eight papers, the class of the certificate he receives is reckoned on the subjects in which he has the highest marks. If such a candidate

*The University may, under special circumstances, permit candidates to substitute another modern language for French.

offers a subject, such as Latin, which has two papers, the marks in both these papers must either count towards the certificate or be neglected, i.e., a candidate cannot count towards his certificate the better of two Latin marks and the better of two German marks.

FIRST, SECOND, AND THIRD CLASS CERTIFICATES.

Successful candidates are awarded a school certificate of the first, second, or third class.

To obtain a first or second class certificate a candidate must complete the examination in not more than two attempts within a period of sixteen months and may write a part of the examination at each attempt. The marks obtained in his first attempt will always be counted towards a third class certificate, but will not be counted towards a first or second class certificate if he fails in more than one paper. To obtain a first or second class certificate such a student must rewrite the whole examination, and the certificate will be awarded solely on the marks obtained at the second attempt.

An average of 80% or over in all the papers required for the certificate entitles a candidate who has complied with the previous regulation to a first class certificate.

An average of 70% or over obtained under the same conditions, entitles a candidate to a second class certificate. Other successful candidates receive a third class certificate.

DISTINCTIONS.

Candidates who obtain 80% or over in any subject are given distinction in this subject.

CERTIFICATES RECOGNIZED

Candidates for admission offering certificates which are not a full equivalent may be required to pass in one or more McGill papers.

Intending students who wish to enter by certificate should under no circumstances come to the University without having first obtained from the Registrar a statement of the value of the certificate they hold.

The following certificates will be considered on their merits towards meeting the University entrance requirements:—

PROVINCE OF QUEBEC.

The High School Leaving Certificate.
The Catholic High School Leaving Certificate.

PROVINCE OF ONTARIO.
Middle School.

PROVINCE OF NEW BRUNSWICK.
Junior Matriculation.

PROVINCE OF NOVA SCOTIA.
Grade XI Certificate.

PROVINCE OF PRINCE EDWARD ISLAND.
Second Year Certificate of Prince of Wales College.

PROVINCE OF BRITISH COLUMBIA.
Junior Matriculation.

PROVINCE OF MANITOBA.
Grade XI Certificate.

PROVINCES OF ALBERTA AND SASKATCHEWAN.
Grade XI.

NEWFOUNDLAND.
Junior Matriculation.

GREAT BRITAIN.

The School Certificate of:—

The Oxford and Cambridge Schools Examination Board.
The Oxford Local Examination Board.
The Cambridge Local Examination Board.
The Northern Universities Joint Examination Board.
The Central Welsh Board.
The University of Durham.
Bristol University.
The University of London.

The University of London Matriculation.

The Certificate of Fitness issued by the Scottish Universities Entrance Board.

The School Certificates above will be accepted for admission to the B.A. courses *with four Credits* if these are (1) English, (2) Latin or Greek, (3) French or German or Spanish, (4) Mathematics or a Science; *or with five Credits* if the five are three of the Credits mentioned above and two Credits in subjects not mentioned (excluding Religious Knowledge).

For admission to the B.Sc. courses, a science may replace Latin or Greek.

UNITED STATES.

1. McGill University recognizes the examinations conducted by the College Entrance Examination Board, 431 West 117th Street, New York City.

2. Because of the war the programme of College Board Examinations has been modified. Pupils who think of applying for entry to McGill University should ask their Principal to write to the Registrar concerning the tests to be taken.

3. Certificates from accredited High Schools are not normally recognized but pupils are sometimes admitted without further examination if they occupy a position in the first fifth of their class and are specially recommended for university work by their Principals.

MISCELLANEOUS.

Other certificates, such as those issued by universities or recognized public Examining Boards, will be judged on their merits and accepted in so far as they meet the entrance requirements.

ENTRANCE REQUIREMENTS OF FACULTIES ADMITTING STUDENTS ON BASIS OF THESE EXAMINATIONS

FACULTY OF ARTS AND SCIENCE

(1) Admission to Courses leading to B.A. degree.

In the University's own Examination, ten papers are required.

No. of Papers	Subject
2	English.
1	History.
2	Latin or Greek.
2	One of the following: Greek or Latin (the one not already chosen); French; German; Spanish.
2	Elementary Mathematics.
1	One of the following: Biology; Botany; Chemistry; Drawing; Geography; Physics; Music; one paper in Intermediate Mathematics; a foreign language not already chosen (the average of the two foreign language papers is counted).
10 papers	

(2) Admission to courses leading to B.Sc. degree.

In the University's own examination ten papers are required.

No. of Papers	Subject
2	English.
1	History.
2	French or German
2	Elementary Mathematics.
1	One of the following: Biology; Botany; Chemistry; Physics.
2	Either Latin or Spanish or French or German (if not already chosen) or any two of the following papers not already chosen: (a) Intermediate Algebra.* (b) Intermediate Trigonometry.* (c) Biology or Botany. (Biology and Botany may not both be chosen). (d) Chemistry. (e) Geography. (f) Physics. (g) Music or Drawing. (Music and Drawing may not both be chosen).
10 papers.	

(3) Admission to courses leading to B.Com. degree.
Either (1) or (2) above.

Faculty of Agriculture

(1) Admission to courses leading to B.Sc. (Agr.).

In the University's own examination ten papers are required.

No. of Papers	Subject
2	English.
1	History.
2	Latin *or* French *or* German *or* Spanish (French preferred).
2	Elementary Mathematics.
1	Physics or Chemistry or Biology.

*Candidates who intend to enter Engineering should choose these subjects. They are also strongly recommended for candidates who intend to study for honours in Chemistry, Mathematics, or Physics.

No. of Papers	
	EITHER
2	Latin or French or German or Spanish (if not already chosen);
	OR
	Any two of the following papers not already chosen:—
	a. Intermediate Algebra;
	b. Intermediate Trigonometry;
	c. *Botany;
	*Biology;
	d. Chemistry;
	e. Physics;
	f. Drawing;
	g. Geography;
	h. Music (B.H.S. candidates only. Music and Drawing may not both be chosen.)
10 papers.	

(2) For admission to the School of Household Science the requirements are those of the Science Courses printed above with the addition of one subject, Household Science, which may be substituted for any of the optional subjects (a) to (h) above.

PRESCRIPTION OF WORK IN EACH SUBJECT

For the examinations in June and September 1944.

In all papers marks will be deducted for bad errors in spelling.

BIOLOGY.

All the subjects mentioned should be studied practically, both in the field and in the classroom. Vivaria and aquaria should be kept and plants should be grown in soil and water culture. Pupils should be encouraged to collect materials and so add to the school museum. Typical preparations and demonstration dissections should be made. In small classes pupils might do some dissection personally. Simple experiments should be used wherever possible. The use of a hand lens is essential for every pupil and a microscope should be available.

The items of the syllabus may be studied in any order with due regard to the season and local conditions.

I. The general external characters and structure of a dicotyledonous flowering plant and of a small mammal such as a rabbit and the general biological principles to be drawn from such studies.

The general structure of a plant cell and of an animal cell as seen in Spirogyra and Amoeba. The properties of living matter. The differences between animals and plants.

*Botany and Biology may not both be chosen.

II. The general structure, life-history, relation to environment, and broad classification of the following types based on practical study.

Plants: Thallophyta: Algae—unicellular and filamentous; Fungi —bacteria, yeast, mould, higher fungi. Bryophyta—one type. Pteridophyta — one type. Spermatophyta: Monocotyledons — one type. Dicotyledons—one herb and one tree. Details of the appearance and structure of the organs of a flowering plant considered in relation to function.

Animals: Protozoa—Amoeba, Paramecium; Coelenterata—Hydra; Annelida—Earthworm; Arthropoda—Crayfish, Grasshopper or Locust; Pisces—Perch, Pike, Cod or Haddock; Amphibia—Frog; Reptilia—external characters of Lizard or Turtle; Aves—external characters of a Bird; Mammalia—Rabbit.

III. The physiology of living organisms. Structure and function should be studied together.

Plant Physiology—Essentials of nutrition (photosynthesis, mineral nutrition, storage of food, special modes of feeding), respiration, water relations, growth and reproduction. The plant organism as a whole. Seasonal changes in perennial herbs and trees.

Animal Physiology—Elementary physiology of the animals listed in the preceding, including locomotion, nutrition, circulation, respiration, secretion, excretion, nerve control, action of hormones, growth, reproduction. Seasonal changes in animals.

IV. Field Natural History. The natural history of the plants and animals mentioned. Relationship of plants and animals in the general economy of nature. Trees and animals of the neighbourhood. Relation of plants and animals to their physical environment and to one another in one type of community, such as woodland pasture, cultivated land, swamp or an aquatic community. The dominant plants and animals of this community.

V. The interrelation of plants and animals with man. The importance of plants and animals as sources of food, shelter, clothing, commercial products.

Plants—Green plants as basic food supply. Man's staple food plants. Lumber, paper, rubber, etc. Plant geography and plant industries of North America in relation to climate. Useful bacteria and fungi; organic decay, carbon and nitrogen cycles. Pathogenic bacteria and fungi and their control.

Animals—Protozoan and other parasites as causal agents of disease; insects, useful and injurious, in relation to human health, farm stock, crops and forests. Food animals. Fur-bearing animals in relation to climate.

VI. Elementary outline of the principles of heredity and variation among plants and animals.

One examination paper.

BOTANY.

All the subjects mentioned should be studied practically. Aquaria should be kept, plants grown in soil and water culture, and simple physiological experiments carried out. The use of a hand lens is essential for every pupil and a microscope should be available.

The items of the syllabus may be studied in any suitable order.

I. Organs and Cells.

The general external characters and structure of a flowering plant considered in relation to its mode of life.

Structure of a plant cell; properties of protoplasm; types of cell.

II. Types and Classification.

The general structure, life history, relation to environment and broad classification of the following types:

Thallophyta:	Algae—Oscillatoria, Protococcus, Spirogyra, Oedogonium, Fucus or Laminaria. Fungi—Bacteria, Yeast, Mould, Mushroom, other Fungi, including at least one parasitic form. Lichens—general.
Bryophyta:	A Liverwort, a Moss.
Pteridophyta:	A Fern, Equisetum, Selaginella.
Spermatophyta:	Gymnosperms—one Conifer type and general characters of other local species. Angiosperms — a Monocotyledon; Dicotyledons — herbaceous and tree types. General structure of flower, fruit and seed. Comparison with homologous structures of preceding types.

Leading characters of the groups listed above. Trends in the evolution of a many celled body and of sexual reproduction as illustrated by the algal types, and of alternation of generations and adaptation to land life as displayed by the higher forms.

General characteristics and common plants of the following families of flowering plants: Liliaceæ, Gramineæ, Orchidaceæ, Ranunculaceæ, Rosaceæ, Leguminosæ, Umbelliferæ, Solanaceæ, Labiatæ, Compositæ.

III. Physiology and Histology.

Elements of the microscopic structure of a typical leaf, root, herbaceous stem and woody stem studied in relation to the functions of the organ and its parts.

Essentials of nutrition (photosynthesis, mineral nutrition, storage of food, special modes of feeding), respiration, water relations, growth, tropisms, and reproduction. The organism as a whole. Seasonal changes in perennial herbs and trees.

IV. Field Natural History.

Common trees and some other plants of the neighbourhood. Elements of the ecology of at least one local area, such as wood, meadow, swamp or seashore. Adaptation to environment. Modes of pollination and of distribution and germination of seeds.

V. Heredity.

Elementary outline of the principles of heredity and variation as applied to plants.

VI. Relation to Man.

Green plants as the basic food supply. Man's staple food plants. Nature and source of other important plant products, e.g., lumber, fibres, paper, rubber. Useful bacteria and fungi; organic decay, carbon and nitrogen cycle. Pathogenic bacteria and fungi and their control. Main types of vegetation found in North America, with emphasis on Canada; their relation to climate and to human activities.

One examination paper.

CHEMISTRY.

I. Preparation, properties and uses of hydrogen; oxygen; ozone; hydrogen peroxide; the halogens and their hydrides; nitrogen, its hydride, oxides and acids; sulphur, its hydride, oxides and acids; carbon and its oxides; phosphorus, its hydride, oxides and acids.

II. General methods of production of the metals such as sodium; calcium, magnesium, aluminum, copper, chromium, and manganese.

III. Periodic Classification of the Elements generally.

IV. Common industrial processes, including those for sodium hydroxide, lime, sodium carbonate, sulphuric acid, nitric acid, ammonia, fixation of nitrogen ,and calcium carbide.

V. Water, its composition and physical properties.

VI. Aqueous solutions of electrolytes and non-electrolytes.

VII. Catalysis.

VIII. Laws and theories associated with the following names: Boyle, Charles, Avogadro, Gay Lussac, Dalton, Lavoisier, Henry, Dulong and Petit, Arrhenius, and LeChatelier.

IX. Reversible Reactions.

X. Thermo chemistry of carbon, hydrogen, ozone.

XI. Elements of Atomic Structure.

XII. Atomic, molecular and equivalent weights.

XIII. The Atmosphere.

One examination paper.

DRAWING.

Candidates must take two parts. They may take *either* (a) Parts I and II *or* (b) Parts III and IV *or* (c) *one* of III and IV and *one* of V and VI.

PART I

Elementary problems in the graphic geometry of the circle, ellipse, and plane rectilinear figures.

PART II

(*a*) Reproduce freehand ornament designs from flat copies.

(*b*) Make drawings, by freehand, or otherwise, of objects described, illustrating the principles of perspective.

(*c*) Make outline drawings of objects placed at a short distance.

PART III

Make a drawing in light and shade, with charcoal or pencil, of a plaster cast or a still life group.

PART IV

Make water colour drawings of still life groups.

PART V. COMMERCIAL ART

(*a*) Lettering, including Roman and Gothic.

(*b*) Posters, Magazine Page Advertisements.

(*c*) Illustration, in colour and otherwise.

PART VI. CRAFT DESIGN

(*a*) Principles of ornament and decoration

(*b*) Historic Styles.

(c) Themes, compositions or designs, founded on flowering plants, birds, fishes, butterflies, animals and humans, for specific purposes such as:—wall papers, embroideries, silver and copper work, jewellery, stained glass, decoration of pottery, cups and saucers, etc.

ENGLISH.

A. Composition.

Short essays on general subjects including at least one question in which the candidate is addressing a particular audience. There will be a wide choice of subjects but the practice of setting essays on the general readings in English Literature will be discontinued. There are now no special readings required for the Composition paper.

B. Literature.

For critical study:

1. Wordsworth, Coleridge, Keats, and Browning in Poems of the Romantic Revival (Copp, Clark, Company, Toronto), or in Nineteenth Century Poetry, edited by Dilworth (Copp, Clark Company, Toronto).

2. Shakspere: Julius Caesar or the Merchant of Venice.

For general reading:

3. Novel: Hardy—Under the Greenwood Tree, or Thackeray—Henry Esmond.

4. Shakspere: As You Like It, or Twelfth Night.

5. "English Essays" selected by W. Peacock, World's Classics, Vol. 32 (O.U.P.). Suggested readings: Addison, Goldsmith, Lamb, Hazlitt; Thackeray, and Stevenson.

6. Stevenson: An Inland Voyage; Travels with a Donkey; the Pavilion on the Links.

FRENCH.

Elementary Paper.

The examination will consist of the following four parts:

A. *Oral Comprehension.*
A passage in French will be read to the candidates who will then be asked to answer, in English, questions on this passage.

B. *Written Comprehension.*
One or more short passages in French will be given to the candidates to read. They will then be asked to answer, in English, questions on these passages.

C. *French Composition.*
A short essay to be written in French upon a topic selected by the candidate from a list printed on the examination paper.

D. *Grammar*.
(a) Simple English sentences to be translated into French.
(b) Questions on fundamental grammatical forms (plurals, tenses of verbs, feminines, etc.).

Advanced Paper.

A. Translation from English into French.

B. Translation from French into English:
one sight passage,
one or more passages from the texts.

C. Questions on the texts to be answered in French.

French Texts:—

1944. About: Le Roi des Montagnes (Harper), and Augier and Sandeau: Le Gendre de M. Poirier (Holt).

1945. Maupassant: Ten Short Stories (Ginn), and Brieux: Blanchette (Heath).

GEOGRAPHY.

The main purpose of instruction in Geography is assumed to be to arouse in the student's mind a perception of (1) the influence of geographical environment on human life, and (2) how human endeavour may modify the natural environment. At the same time, a certain minimum amount of factual knowledge is required.

Candidates are expected to have an elementary knowledge of map reading and an ability to draw simple sketch maps to illustrate their answers. Simple problems to be worked on a map may be included in the paper.

A. *World Geography*, with special reference to the characteristics of the major natural regions.

The shape of the Earth: latitude and longitude as a means of locating position.

The movements of the Earth: local time, and the course of the Seasons.

The distribution of land and water.

Land forms and the agencies modifying them.

The Ocean: currents, tides, and waves.

The factors determining climate, including the atmospheric circulation.

The broad contrasts and chief features of the major natural regions of the World, with the reasons for their existence: e.g. the tropical forests, the great deserts, etc.

The distribution of population, introduced by an elementary treatment of the topographical, climatic, and other factors which influence the settlement and development of human communities—A brief account of racial distribution—The areas of exceptionally dense and exceptionally scanty population—Predominantly agricultural, industrial, mining, and fishing regions—The advantages of trade—The position of the great trading centres and seaports—The more important trade routes by land and sea, and the developing air routes—The more important political divisions of the World, with special attention to the British Empire.

B. Regional Geography.

The countries around the North Atlantic: Canada, the British Isles, the United States of America, and France, taken in decreasing order of detail. Position, physical features, climate, natural resources, and, in outline, the history of development, as influencing the present distribution of population, and the occupations, trade, and life, of the people.

Candidates may be asked to insert required data on a blank map of the whole or any part of the North American Continent and to show familiarity with such geographical forms and forces as may be exemplified in their home district.

One examination paper.

GERMAN.

Texts:—(Translation and grammatical study):—

B.A.: Guerber, Märchen and Erzählungen Vol. I. (Heath), Numbers 1, 2, 5, 6, 7, 8, 11, 12, 13, 14, 15; A. Sapper; Frieder, Im Thüringer Wald (F. S. Crofts & Co., New York, 1934).

Grammar:—A thorough knowledge of German accidence and syntax.

Translation at Sight from English into German and German into English of easy prose passages.

B.Sc.: Guerber: Märchen und Erzählungen Vol. I, (Heath), Numbers 1, 2, 5, 6, 7, 8, 11, 12, 13, 14, 15; and Fiedler and Sandbach: A first German Course for Science Students (O.U.P.).

Grammar:—A knowledge of German accidence and syntax.

Translation at Sight of sentences from English to German and of easy prose passages from German into English.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into German, and one on translation of continuous passages from German into English and from English into German.

GREEK.

Texts: Colson, Greek Reader (Macmillan) Parts III, IV, V; Allen, The First Year of Greek (Macmillan), Lessons 1-34 inclusive, with the Exercises belonging to these lessons.

Grammar:—Knowledge of grammar will be tested by translation and by grammatical questions based on the specified texts.

Two examination papers; one on Colson and Grammar; the other on Allen and Composition.

HISTORY.

(*a*) *General History from 1618-1914*
or
(*b*) *British History from 1714-1914*

One examination paper.

Note: A new paper in Canadian History will be offered for the first time in 1945. It may be written only by candidates who are also writing one of the other history papers. The syllabus will be ready before the end of 1943.

In preparing for the History papers a rigid adherence to any one author or to any one book is quite undesirable. Instead, a broad and extensive basis of reading and study should be encouraged, provided always that the standard of historical scholarship normally recognized as applicable to the last two years of secondary work is not exceeded.

For both the European Continent and the British Isles a descriptive knowledge of the principal physiographical features and their historical influence is assumed; also a similar descriptive knowledge of races and nationalities with their geographical distribution and inter-relations.

Candidates should be trained in an elementary technique in dividing their subject as a whole into successive periods or eras. For each successive period this elementary technique should be carried to a point at which a candidate is equipped to indicate the following: 1,—the prevailing and distinctive characteristics of a period together with the transitional influences leading to the next; 2,—the political and other movements common to several countries at the same time; 3,—the history of individual countries or States both large and small, when these are of outstanding importance; 4,—the changing views of the nature of the State and of the nature of government and public authority; 5,—international relations and foreign policy in general; 6,—the Balance of Power, the purposes and objects of wars, military and naval history, treaties of alliance and of peace; 7,—such leading topics as the Eastern Question, Mediterranean rivalry, the Rhine as a frontier, the Polish and the Irish

Questions, etc. Religious changes and the history of Churches should be viewed in the light of their relations with the State as well as of their broader connections with society. A beginner's acquaintance should be sought with different ways of political thinking involved in such schools of thought as Liberalism, Conservatism, Reaction, Socialism, Imperialism, Nationalism, etc. To these should be added an elementary study of commerce and commercial rivalry, of transport and transportation routes, together with an outline sketch of the progress of science, of industry and industrial life, of education, letters, and the fine arts. For the British Isles, industry, industrial life and constitutional development are naturally to be stressed.

General History (1618-1914) is intended to include the history of European countries during this period, together with some knowledge of that of their colonies.

A supplementary use of biographies and of historical fiction is strongly advised. The following books are suggested as examples of what the candidates may be recommended to read in this connection, but it is not intended to imply that teachers should not be at liberty to suggest additional works to their classes in accordance with their particular interests. The paper will include questions which will give candidates an opportunity of showing their knowledge of these supplementary readings.

General History. 1618-1914.

K. Federn:	Richelieu.
F. Watson:	Wallenstein.
J. Buchan:	Cromwell.
F. Funck-Brentano:	The Old Regime in France.
A. Young:	Travels in France.
H. Fisher:	Napoleon.
J. Holland Rose:	The Personality of Napoleon.
P. Guedalla:	The Hundred Years.
H. du Coudray:	Metternich.
P. Guedalla:	The Second Empire.
G. M. Trevelyan:	Garibaldi and the Thousand.
E. Ludwig:	Bismarck.

British History. 1714-1914.

J. Addison:	Essays from the Spectator.
H. Walpole:	Selected Letters (Everyman).
J. L. & B. Hammond:	The Village Labourer.
Cobbett:	Rural Rides.
P. Guedalla:	The Duke.
J. L. & B. Hammond:	Lord Shaftesbury.
Mrs. Craik:	John Halifax Gentleman.
L. Strachey:	Queen Victoria.
L. Strachey:	Eminent Victorians.
A. Maurois:	Disraeli.
Quennell:	History of Every-day Things in England, 1733-1851.
H. Spring:	Fame is the Spur.

LATIN.

Texts (Translation and Grammatical study).

Latin Prose and Poetry (Bonney and Niddrie).

Cicero I, II, IV, VI and Letter VIII.

Nepos, I, II, VII, VIII, X.

Caesar, I, II.

Pliny, I, VI, VIII, IX, XI.

Virgil, Part I, I-VII.
Part II, Georgics, I-V.

Ovid, VI, VIII-X.

Horace, I, IV, VI, VIII.

Martial, I-IV, VIII, X.

Every-day Life in Rome, Treble and King (Oxford).

Knowledge of grammar will be tested by translation and composition, and by questions in grammar based on the specified texts.

Translation at Sight from Latin into English (with the aid of a vocabulary of unfamiliar words).

Composition. Translation into Latin of detached sentences. The vocabulary is based upon the texts studied.

(There will be no questions set upon: subordinate clauses in indirect narration; temporal clauses with *dum, donec,* and *quoad; antequam* and *priusquam; quin* and *quominus* clauses; causal and concessive clauses).

Two examination papers; one on the Prose authors and composition, the other on the Poets, Sight Translation, and on the text book Everyday Life in Rome.

NOTE.—The "Roman" method of pronouncing Latin is recommended.

ELEMENTARY MATHEMATICS.

Higher Arithmetic.

1. Addition, subtraction, multiplication, and division of integers. Factors. Highest Common Factor and Least Common Multiple.

2. Properties of Vulgar Fractions including addition, subtraction, multiplication, and division. Complex Fractions.

3. Properties of decimals including the conversion of vulgar fractions into decimals and vice versa. Extraction of square root. Contracted multiplication and division of decimals.

4. Simple properties of ratio and proportion. The Unitary method.

5. Simple properties of percentages, e.g., changing a fraction to a per cent and vice versa, finding what per cent one number is of another.

6. Units of measurement and changing from one unit to another. A knowledge of the standard tables of weights and measures will be expected, e.g., length, area, volume, capacity (liquid and dry), apothecaries (fluid and weight), avoirdupois and troy weight, time, English and Canadian monetary systems. The metric system.

7. Simple mensuration of the rectangle, triangle, parallelogram, trapezoid, circle, cylinder, cone, and pyramid.

8. The construction and interpretation of simple graphic and other representative diagrams of concrete numbers.

Candidates will be expected to apply the preceding principles to the solution of simple problems such as the making of solutions and preparation of dosages, the relation between pressure and temperature of a gas,

the comparison between fahrenheit and centigrade thermometric scales, etc. Students should be taught to apply rough approximations, such as

$$\frac{3.1416 \times \sqrt{64.37}}{\sqrt[3]{126}} = \frac{3 \times 8}{5} = 5$$

to check the accuracy of their work and they should also be shown how to use tables of squares, square roots, cubes, and cube roots of integers and decimals. A knowledge of circulating decimals will not be required.

Algebra.—Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities, ratio and proportion, as in High School Algebra by J. T. Crawford (Revised Edition, 1940) published by Macmillan and Co., pp. 1-320, omitting Chaper XIII and pp. 288-289, or similar text-books.

One examination paper.

Geometry.—The paper will contain questions on practical and on theoretical geometry.

In practical geometry, where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate must provide himself with a ruler graduated in inches and tenths of an inch, and in centimeters and millimeters, a set square, a protractor, compasses, and a hard pencil. All figures should be drawn accurately.

The questions on theoretical geometry will consist of theorems contained in the text-book prescribed, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition will be accepted if it forms part of a systematic treatment of the subject.

In the proof of theorems and deductions from them, the use of hypothetical constructions will be permitted. Proofs which are only applicable to commensurable magnitudes will be accepted.

Text-book recommended:—Geometry for High Schools by W. J. Lougheed and J. G. Workman, published by the Macmillan Co. of Canada (1941), omitting pp. 223-224, 242, 308-314, 323-329, or the same subject matter in any similar text-book.

One examination paper.

INTERMEDIATE MATHEMATICS.

Algebra.—Arithmetic, geometric and harmonic progressions, variations, permutations and combinations, binomial theorem, logarithms, number system, theory of quadratic equations, as in Intermediate Algebra by H. Tate, published by Sir Isaac Pitman and Sons, Toronto, or as in similar text-books.

One examination paper.

Trigonometry.—Measurement of angles, radian measure, trigonometrical ratios of functions of one angle, of two angles, and of a multiple angle, relations between the sides and angles of a triangle, easy problems on heights and distances, east trigonometrical equations, as in Elementary Trigonometry by H. S. Hall and S. R. Knight, adapted for use in Canadian Schools (1940 edition), published by the Macmillan Company of Canada, Chaps. I to XI inclusive, omitting paragraph 113a, or as in similar textbooks.

One examination paper.

Four-figure mathematical tables will be provided.

MUSIC.

The Intermediate Grade Certificate of McGill University in practical subjects and the Junior Grade Certificate in theoretical *or* vice versa. (Details will be found in the Announcement of the Conservatorium of Music.)

PHYSICAL GEOGRAPHY.

(*See under Geography, page 146*).

PHYSICS.

The following are the main topics required in Mechanics, Heat, Electricity and Magnetism. There is one examination paper.

Mechanics.

Measurements of length, area, volume, mass and weight. The beam and spring balances.

Uniform and uniformly accelerated motion in a straight line; Newton's laws of motion and simple applications of them. Motion under gravity; the law of gravitation. Moments of forces; composition of parallel forces, equilibrium of forces (parallelogram and triangle laws); centre of gravity. Work, energy, power. Sliding friction. Mechanical advantage of a machine; levers, pulleys, wheel and axle, differential pulley and differential wheel and axle, inclined plane, wedge, screw; efficiency of a machine. Density and specific gravity. Fluid pressure, Pascal's law; hydraulic press. Relation between pressure and depth. Buoyancy; Archimedes Principle; floating bodies. Measurement of specific gravity of solids and liquids; specific gravity bottle, hydrometer.

Weight and pressure of air; barometers, determination of altitude, weather forecasting, Boyle's Law. Air pumps and compressors. Pressure gauge. Suction and force pumps, siphon.

Surface tension and capillarity (qualitative treatment).

Heat.

Elementary ideas of the structure of matter and kinetic theory of gases. Sources of heat. Temperature; construction of a liquid in glass thermometer, fixed points, graduation; Centigrade and Fahrenheit scales. Expansion of solids, coefficient of linear expansion; expansion of liquids, anomalous expansion of water. Expansion of gases, Charles' Law, absolute temperature; the gas equation.

Heat quantity and its measurement in calories and B.T.U., specific heat, capacity for heat: calorimetry by method of mixtures. Change of state; fusion and solidification; effect of pressure on melting point; heat of fusion; freezing mixtures; vaporization, rate of evaporation, saturated vapour, boiling, effect of pressure change (including altitude); heat of vaporization of water; cooling by evaporation. Condensation of water in the air; dew point; relative humidity, wet and dry bulb hygrometer, humidity and health; atmospheric phenomena—fog, clouds, dew, frost, rain, snow, hail.

Mechanical equivalent of heat; steam engine.

Conduction of heat, solids, liquids and gases; convection, currents in fluids, winds; radiant heat, emission and absorption; heating of buildings, ventilation; refrigeration.

Magnetism.

Natural and manufactured magnets; polarity, attraction and repulsion. Magnetic induction, magnetic field. Molecular theory. The earth as a magnet; compass, declination, dip.

Static Electricity.

Electrification by friction, attraction and repulsion, two kinds of electrification; conductors and insulators; electrons; gold leaf electroscope. Electrification by contact and induction; testing charge on a body; induced charge equal to inducing charge; charges by friction equal and opposite; charges reside on outside of empty hollow conductor. Action of points, lightning rods. Potential, capacity, condensers, Leyden jars.

Current Electricity.

Magnetization of steel by discharge of Leyden jar.

Voltaic cell, electric circuit, series and parallel arrangements. The magnetic, chemical and thermal effects of a current; Oersted's experiment, magnetic field due to a straight wire, circular wire, and helix; polarity. Action of one current on another, Ampère's Laws. Tangent and moving coil galvanometers. Electromagnet. Electric bell and telegraph. Electrolysis of water, laws of electrolysis, coulomb, measurement of current; electroplating. Voltaic cell, chemical action, electromotive force, polarization, local action. Leclanche and dry cells. Storage cells, lead accumulator. Heat developed by current; electric iron, fuses, incandescent

lamp and arc light. Ohm's Law; practical units, ampere, volt, ohm; fall of potential in circuit, method of substitution for measuring resistance. Law of dependance of resistance on length and cross-section of cylinder. Work done in a circuit, rate of working in circuit and in lamp. Ammeters and voltmeters.

Electromagnetic induction; Faraday's experiments. Induction coil. Dynamo, armature, field magnets, commutator for D.C. electric motor, transformer, telephone.

SPANISH.

Two papers will be set, containing (1) questions on grammar and syntax, (2) passages for translation from prescribed texts, (3) unseen translation from Spanish into English, and (4) translation from English into Spanish.

Texts prescribed:—Alvarez Quintero: La Flor de la Vida (Heath & Co.). El padre Isla: Gil Blas de Santillana (Macmillan).

SENIOR SCHOOL CERTIFICATE

REQUIREMENTS FOR THE CERTIFICATE

To obtain the Senior School Certificate the candidate must pass in English Literature and English Composition and in at least three of the following subjects:

Accountancy.	History.
Biology.	Latin.
Chemistry.	Mathematics.
French.	Music.
German.	Spanish.
Greek.	Physics.

To satisfy the examiners in a language the candidate must pass in each of the two papers in this language.

To satisfy the examiners in Mathematics the candidate must write and pass at least two of the three papers offered in this subject.

Pass Mark.—The pass mark in each paper is fifty percent.

Classes of Certificates.—Successful candidates are awarded a Senior School Certificate of the first, second, or third class.

To obtain a first or second class certificate a candidate must complete the examination in not more than two attempts within a period of sixteen months and may write a part of the examination at each attempt. The marks obtained in his first attempt will always be counted towards a third class certificate, but will not be counted towards a first or second class certificate if he fails in more than one paper. To obtain a first or second class certificate such a student must rewrite the whole examination, and the certificate will be awarded solely on the marks obtained at the second attempt.

An average of 80% or over in all the papers required for the certificate entitles the candidate who has complied with the previous regulation to a first class certificate.

An average of 70% or over obtained under the same conditions, entitles a candidate to a second class certificate. Other successful candidates receive a third class certificate.

Distinctions.—Candidates who obtain 80% or over in any subject are given distinction in this subject. Distinction is not given in *single* papers of Mathematics or the languages (including English).

CERTIFICATES RECOGNIZED

The following certificates will be considered on their merits towards meeting the University entrance requirements:—

PROVINCE OF QUEBEC.

Senior High School Leaving Certificate.

Senior Catholic High School Leaving Certificate.

PROVINCE OF ONTARIO.

Upper School Certificate.

PROVINCE OF NOVA SCOTIA.

Grade XII Certificate.

PROVINCE OF PRINCE EDWARD ISLAND.

Third Year Certificate of the Prince of Wales College.

PROVINCE OF MANITOBA.

Grade XII Certificate.

PROVINCES OF ALBERTA AND SASKATCHEWAN.

Grade XII Certificate.

PROVINCE OF BRITISH COLUMBIA.

Senior Matriculation Certificate.

NEWFOUNDLAND.

Senior Matriculation Certificate.

GREAT BRITAIN.

The Higher Certificates of:—

The Oxford and Cambridge Schools Examination Board

The Oxford Local Examination Board.

The Cambridge Local Examination Board.

The Northern Universities Joint Examination Board.

The Central Welsh Board.

The University of Durham.

Bristol University.

The University of London.

In addition, pupils of recognized British Public and Secondary Schools who have obtained their School Certificates with the requisite credits, may be admitted to the Second Year without further examination, if they have satisfactorily completed at school a year's work beyond the School Certificate in the subjects of the McGill Senior School Certificate, and are specially recommended by their headmasters or headmistresses.

REQUIREMENTS

I. Arts Courses

For admission to the Second Year of the B.A. courses.

English.

Latin or Greek.

Mathematics* or a third foreign language.

Any two of the following:—

1. History.
2. Latin or Greek (the one not already chosen).
3. French.
4. German.
5. Spanish.
6. Science (Physics or Chemistry or Biology).
7. Music.

*Two papers: one in Algebra and one in Geometry and Trigonometry.

Candidates may substitute a third foreign language for Mathematics only if they have passed in the Elementary Mathematics of the Junior Certificate Examination or of some equivalent examination.

The Dean of the Faculty of Arts and Science may, at his discretion, admit a student who has substituted one of the other optional subjects for Mathematics if

(1) the student has already passed the Junior Certificate Examination, or some equivalent examination, in Elementary Mathematics;

(2) the record of the student shows sufficient promise to justify this concession.

Candidates who wish to enter the Faculty of Medicine at the end of the Third Year of the B.A. course must take Mathematics.

II. Science Courses

For admission to the Second Year of the B.Sc. courses.

Chemistry.

English.

French or German.*

Mathematics.**

Physics.

III. Commerce

For admission to the Second Year of the B.Com. courses.

English.

Mathematics.

French or German or Spanish or History.

Accountancy.

Any one of the following:—

1. Latin or Greek.
2. French or German or Spanish (one not already chosen).
3. Physics or Biology or Chemistry.
4. History (if not already chosen).

IV. Engineering

For admission to the First Year of the Faculty of Engineering (Engineering and Architecture Courses).

Chemistry.

English.

Mathematics. (All three papers are required).

Physics.

Biology or French or German* or Greek or History or Latin or Spanish.

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*A candidate who has passed the two papers in Junior French may satisfy the Senior B.Sc. or B.Eng. German requirement by passing the Junior examination in this subject.

**The paper in Algebra and the paper in Trigonometry are compulsory. The paper in Co-ordinate Geometry is optional but is strongly recommended for candidates who intend to study for honours in Mathematics, Physics, or Chemistry.

REQUIREMENTS IN EACH SUBJECT

(For the examinations in June and September 1944)

ACCOUNTANCY.

Double-Entry Book-keeping, including all subsidiary books and ledgers, up to and including the use of Control, Total or Balancing Accounts; closing off of ledgers; preparation of Trading and Profit and Loss Statements and Balance Sheets.

Books specially required.

Cash-Book suitable for an office, where all cash and cheques received are banked daily, all payments above a certain amount are made by cheque, and all lesser payments through petty cash. Cashier to be able to show the balance in the bank at any time at very short notice.

Cash-Book suitable for an office, where sums of cash are kept in the office, in addition to petty cash, and deposits in bank do not include whole of receipts. Cashier to be able to show balances of cash, etc., in office and in bank at any time, and at very short notice.

Departmental Sales and Purchases Journals for recording transactions in different classes of goods.

General Journal ruled so as to segregate items according to ledgers into which they are to be posted, in order that totals may be posted to control accounts.

Other matters specially required.

Bills and Notes Payable Registers.

Imprest System of Petty Cash.

Reserves for Bad Debts, Discounts and Depreciation.

Inward and Outward Consignments.

Inward and Outward Freight on Merchandise purchased and sold.

Accrued Expenses and Deferred Charges.

Single Entry Book-keeping.

Use of Working Sheets.

Candidates may be required to define and explain such as the following:—

Invoices; I.O.U.'s; Promissory Notes; Bills of Exchange and parties thereto; Acceptances, Endorsements, etc.; Cheques; Bills drawn in a Set; Bills of Lading; Capital and Revenue Receipts and Expenditure; Current and Fixed Assets; Capitalization.

Marking is arranged so as to prevent any candidate obtaining a pass unless he has shown that he has a sound knowledge of what is outlined in the first paragraph. No candidate is passed who does not show that he understands Control Accounts and their uses. For this purpose subsidiary ledgers and their control accounts in the General Ledger must be shown in full; in addition, the books of original entry must be so ruled and organized that they will produce the required figures no matter how large may be the quantity of items dealt with.

One examination paper.

BIOLOGY.

The botanical part of this syllabus is the same as for Junior School Certificate Botany (p. 142) with the following modifications:—

(a) further knowledge of the ecological interrelation of plants and animals is required.

(b) knowledge of the characteristics of particular families of flowering plants is *not* required.

In order to fulfil the requirements of the syllabus satisfactorily, pupils must undertake individually the dissection of animals, section-cutting of plant tissues, microscopic examination of small organisms and tissues, and simple physiological experiments.

A more intensive study of the Junior School Certificate syllabus is expected, with extension along the following lines:

I. The structure, life-history, principles of classification and evolutionary relationships of the following, based on practical study:

Plants:

Thallophyta:	Algæ—Oscillatoria, Protococcus, Spirogyra Oedogonium, Fucus or Laminaria.
	Fungi—Bacteria, Yeast, Mould, Mushroom, other Fungi including at least one parasitic form.
	Lichens—general.
Bryophyta:	A Liverwort, a Moss.
Pteridophyta:	A Fern, Equisetum, Selaginella.
Spermatophyta:	Gymnosperms—one Conifer type and general characters of other local species.
	Angiosperms —a Monocotyledon; Dicotyledons—herbaceous and tree types. General structure of flower, fruit and seed, Comparison with homologous structures of preceding types.

Leading characters of the groups listed above. Trends in the evolution of a many celled body and of sexual reproduction as illustrated by the algal types, and of alternation of generations and adaptation to land life as displayed by the higher forms.

Animals:

Protozoa—Amœba, Euglena, Paramœcium, Plasmodium.

Cœlenterata—Hydra, Obelia.

Platyhelminthes—Fasciola, Tænia.

Annelida—Lumbricus, external characters of a Ploychæte.

Arthropoda—Crayfish, Grasshopper.

Mollusca—Clam or Snail.

Cephalochorda—Amphioxus.

Pisces—Dogfish.

Amphibia—Frog.

Mammalia—Rabbit or Rat, skull of Dog or Cat.

Comparison of the various organ-systems in the animals listed.

Asexual and sexual reproduction. Alternation of Generations.

Elements of vertebrate embryology as found in the developing Frog and in the Chick (up to end of third day of incubation), to be studied practically.

II. Physiology: structure in relation to function.

Plants—Microscopic structure of a typical leaf, root, herbaceous stem and woody stem studied in relation to the functions of the organ and its parts.

A fuller knowledge of the principal physiological processes as outlined in the Junior Syllabus. This should be based on simple experiments carried out by the student, which he may be asked to describe.

Animals—The chief physiological processes, as outlined in the Junior Syllabus, should be studied more fully and comparatively in all the types listed in Section 1.

Tissues and organs and their functions as observed in Vertebrates.

Respiratory pigments. Vitamines, Hormones. Commensalism. Parasitism.

III. Field Natural History and Ecology.

This should be extended beyond the Junior Syllabus to include study of several biotic communities of the neighbourhood, with some knowledge of the dominant plants and animals in each and their relation to one another and to the physical environment.

Life zones and living natural resources of Canada.

IV. Heredity and Evolution.

The main principles of heredity and variation among plants and animals.

Cytological basis of heredity.

Evidences of organic evolution.

One examination paper.

CHEMISTRY.

Text-book:—Schlesinger, General Chemistry, third edition (1937), omitting pages 319-322, 333-336, 338-345, 368-371, 535-539, 542-553, 561-613, 765-767.

Laboratory Manual:—Barnes, General Chemistry Laboratory Manual, (Second Edition, 1940), is recommended. *Minimum* requirements, Chaps. 6 to 10, 12, 15, 18, 20A, 21 and any five others selected from Chaps. 4, 5, 11, 13, 14, 19, 20B, 20C, 22, or the equivalent from any standard manual designed for first year university students.

One examination paper.

The student's notebook, setting forth his own laboratory work (together with any problems or exercises carried out in connection with the laboratory work), certified by the Instructor and Principal of the School, must be forwarded to the Registrar for the examiner's evaluation *before the date of the written examination.*

ENGLISH.

Composition.—The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of words. In preparation for the examination it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

Literature.—Candidates will be expected to have a general elementary knowledge of English literary history from the time of Chaucer, and the examination will be based upon a list of readings which may be obtained from the Registrar's Office.

Two examination papers, one on English Literature and one on English Composition.

FRENCH.

Lavisse, Histoire de France, Cours Moyen; A. Daudet, Neuf Contes Choisis (Holt); Jules Verne, Le Tour du Monde (Heath); Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford).

Translation at Sight from English into French and from French into English.

Two examination papers.

Oral Examination: An oral examination is held in centres where this is possible, and students intending to study French at the University are strongly advised to take this examination. The oral examination is given *in addition* to the two papers. Success in the oral examination is recorded on the candidate's certificate. A candidate who fails in the oral examination does not thereby prejudice his chances of obtaining a certificate, but is treated exactly as though he had not attempted the oral test.

GERMAN.

Baumbach, Waldnovellen (Heath); Riehl, Burg Neideck (American Book Co.); Hauff, Das Wirtshaus im Spessart (Cambridge University Press).

Translation at Sight from German into English and from English into German.

Two examination papers: one on prescribed texts and one on translation of unseen passages from German into English and from English into German.

GREEK.

Homer, Iliad XXII (Pitt Press Series, Camb. Univ. Press); Lysias, pp. 30-92, in Shuckburgh's Lysias, Orationes (Macmillan).

N.B.—Although the above editions are suggested, others may be used.

The examination will include a paper on grammar, composition and sight translation.

Two examination papers.

HISTORY.

General History of Europe from the break-up of the Roman Empire to 1914.

In point of extent the examination will include the history of Europe from the break up of the Roman Empire to 1914. An advanced outline knowledge of the fifteen centuries involved is assumed, following the general consideration laid down for the study of the briefer period, 1618-1914 in the Junior Certificate requirements. (See page 148). Candidates are expected to have read extensively selected documentary sources; to this end constant reference to some collection of documentary sources is essential. Regular use of an historical atlas of high standard is likewise essential. Stress should be laid, as far as possible, upon the institutional side of historical change, and upon the importance of institutions, political and otherwise, in the social structure. Candidates should have acquired proficiency in describing and explaining, with the correct use of elementary technical terms, the organization of European society at any given period, and the changes in organization from one period to another.

An elementary institutional knowledge should be shown in the discussion of such topics as: the civilising mission of the Church in the Dark Ages; feudal and manorial society and mediaeval town life; the City-States of Renaissance Italy with their cultural and economic interests; the emerging of the monarchical-national State; the era of overseas discovery, exploration and settlement; the Protestant revolt and Catholic reaction with their ensuing wars; the regime of unlimited monarchy; the rise of democracy, the Napoleonic period; the influence of 19th century nationalism; and the adjustment of the Balance of Power leading to the outbreak of the World War.

Candidates should read at least one of the works in each of the following groups:—

(1) Einhard's Life of Charles the Great (tr. S. E. Turner, American Book Co., or W. Glaister, Bell & Son); Memoirs of the Crusades (Everyman's Series); Froissart's Chronicles (Everyman's Series).

(2) Machiavelli's Prince (Everyman Series); Macaulay's Essays on Machiavelli and on Ranke's History of the Popes; Motley's Rise of the Dutch Republic, Part III (Everyman's edition, vol. II).

(3) Macaulay's Essays on the War of the Succession in Spain and Frederick the Great; Carlyle's French Revolution.

(4) A. W. Kinglake's Eothen; G. M. Trevelyan's Garibaldi and the Thousand.

One examination paper.

LATIN.

Cicero, Murder at Larinum (Grose-Hodge, Macmillan); A book of Latin Poetry, edited by Joliffe and Breslove (Macmillan), Part I.

The examination will include a paper on grammar, composition and sight translation.

Two examination papers.

MATHEMATICS.

Three examination papers, one on Algebra, one on Coordinate Geometry, and one on Trigonometry.

(1) *Algebra:*—Arithmetic, geometric and harmonic progressions, variation, permutations and combinations, binomial theorem, logarithms, number system, theory of quadratic equations, functional notation, graphical representation, miscellaneous series such as the sum of the squares and of the cubes of the natural numbers with easy deductions therefrom, as in Intermediate Algebra by H. Tate, published by Sir Isaac Pitman and Sons, Toronto, or as in similar text-books.

(2) *Coordinate Geometry:*—The elements of the coordinate geometry of the straight line and circle as in A New Analytic Geometry by J. E. Durrant and H. R. Kingston, published by the Macmillan Co. of Canada, pp. 1-153 inclusive, and pp. 292-296, or as in similar text-books.

(3) *Trigonometry:*—Measurement of angles, radian measure, trigonometrical ratios or functions of one angle, of two angles and of a multiple angle, relations between the sides and angles of a triangle, solution of triangles using logarithms, easy problems on heights and distances, general values and inverse functions, limits and approximations, as in Elementary Trigonometry by H. S. Hall and S. R. Knight, adapted for use in Canadian Schools, 1940 edition, published by the Macmillan Co. of Canada, Chapters I-XIII, XVII, XVIII and pp. 204-205, or as in similar text-books.

Four figure mathematical tables will be provided.

MUSIC.

(a) *Harmony.*—Scales; Intervals; Transposition of melodies; use of C clefs; barring of certain passages and determining their keys; analysis of chords; chords up to the Dominant 7th and Augmented 6th. This course leads gradually to the writing of simple harmony in 3 or 4 parts. The work covered is that required for the Intermediate Grade Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music).

Text-books:—MacPherson, Rudiments of Music; Kitson, Elementary Harmony—Part I.

(b) *Form and Analysis.*—Phrase. Sentence. Sequence. Cadence Accent. Rhythm. Time. Melody. Modulation. Early Dance Forms Suites—with special consideration of the Minuet and Trio.

Text-books:—MacPherson, Form in Music; MacPherson, Studies in Phrasing and Form; R. O. Morris, Structure of Music.

(c) *History.*—Musical origins, Hebrew and Greek influence on early Christian Music. The rise of Music in two or more parts. Secular Music. English, Flemish and Italian composers. The Renaissance, Instrumental Music, (Lute, virginal, viol, etc.), Opera. Beginnings of the Orchestra. Bach and Handel. C. P. E. Bach and sonata form. Haydn. Mozart. The Romantic Movement. Nationalism in Music. Modern Music.

Text-books:—Stanford & Forsyth, A History of Music; Hadow, Music.

(d) *Aural Training.*—Development of a mental appreciation of scale degrees. Recognition of intervals and simple rhythms. Easy dictation. Sight Reading. Listening—to develop quickness of ear, memory, and natural accuracy. Quality of tone.

Two written examination papers, one on Advanced Rudiments and Harmony and one on Form and Analysis and History. In addition there will be a short practical examination on Aural Training.

PHYSICS.

One paper will be set upon a general knowledge of the more important principles of elementary physics, the scope being that of Mendenhall, Eve, and Keys, College Physics (Heath) or of any equivalent text-book.

Laboratory Work:—Experiments should be performed equivalent to those outlined in an Elementary College Course in Experimental Physics (Renouf Publishing Co.). The student's notebook setting forth his own laboratory work, certified by the instructor and by the principal of the school, must be forwarded before the examination to the Registrar for inspection.

SPANISH.

Two papers will be set as in the Junior School Certificate, but the examination will be of a more advanced character.

Prescribed texts:—Baroja's "Zalacaîn el aventurero", (Heath & Co.); A. Palacio Valdés, A cara o cruz, (Macmillan).

McGILL UNIVERSITY

MONTREAL

SCHOLARSHIPS, BURSARIES, PRIZES, AND MEDALS

1943 - 1944

TABLE OF CONTENTS

		Page
I.	General Statement	175
II.	Entrance Scholarships and Bursaries	177
	A. University Entrance Scholarships and Bursaries	177
	B. Other Entrance Scholarships and Bursaries	178
III.	Scholarships, Bursaries, Loan Funds, Medals, and Prizes, open to undergraduate students registered in the University	183
	A. Open to students in all Faculties	183
	B. Open to students in the Faculty of Arts and Science	186
	C. Open to students in the Royal Victoria College	193
	D. Open to students in the School of Commerce	194
	E. Open to students in the Faculty of Engineering (including Architecture)	196
	F. Open to students in the Faculty of Medicine	201
	G. Open to students in the Faculty of Dentistry	204
	H. Open to students in the Faculty of Law	204
	I. Open to students in the Faculty of Music	205
	J. Open to students in the Faculty of Agriculture	206
	K. Open to students in the School of Household Science	206
	L. Open to students in the School for Teachers	206
	M. Open to students in the French Summer School	207
IV.	Graduate Fellowships, Scholarships, and Medals	207
	A. Fellowships and Scholarships open to McGill graduates and to graduate students registered in the University	207
	Open to graduates in all Faculties	207
	Open to graduates in Arts and Science	208
	Open to graduates in Engineering	210
	Open to graduates in Architecture	211
	Open to graduates in Medicine	211
	Open to graduates in Law	212
	Open to graduates in Agriculture	213
	B. Fellowships and Scholarships open to graduates of McGill and other Universities	213
V.	Scholarships, Prizes, and Medals open to students registered in the various Schools of the University	217
	Open to students in the Library School	217
	Open to students in the School of Physical Education	217
	Open to students in the School for Graduate Nurses	217
VI.	Medals and Prizes in the Department of Physical Education	219
VII.	Index of Awards	221

UNIVERSITY SCHOLARS 1942-43

With dates of first award

ARTS

Block, Shirley C. 1940
Kert, Doris M. 1940
Lane, Alec W. A. 1942
Magid, Nora 1942
Massey, Irving 1940
Naiman, James 1941
Reid, Allana G. C. 1940
Richter, Helmut A. 1941
Rosenzveig, Ruth 1941

SCIENCE

Carlton, Lucille 1941
Darragh, James H. 1941
Hyland, E. Joyce 1941
Kirsch, Milton 1942
Leonard, Rhona C. 1941
Nirenberg, Louis 1942
Rosen, David 1942
Sainte-Marie, Dorothée 1939
Shatan, Hyman 1942
Van Straten, Sylvia 1942
Weininger, Joseph 1942

ENGINEERING

Anderson, James D. 1941
Bernstein, Saul 1939
Booth, James 1938
Cahn, Robert P. 1940
Knight, Curtis L. U. 1941
Legris, Ernest W. 1942
Mroz, Boris 1941
Perrault, Charles H. 1940
*Stairs, Denis 1942
White, H. Edward 1941
Wildi, Theodore 1941
Wishart, Gerald 1939
Yorke-Slader, Geoffrey 1942

COMMERCE

Cockfield, Robert N. 1942

MEDICINE

Powles, William 1936
Rosen, Harold J. 1941
Starr, Harry 1939
Stevenson, Ian P. 1942

ARCHITECTURE

Baillie, Sheila 1942

*On Active Service.

SCHOLARSHIPS, BURSARIES, PRIZES, MEDALS, AND LOAN FUNDS

I. GENERAL STATEMENT

1. General Regulations

(1) Scholarships are awarded and bursaries and loans granted only to students taking a regular course leading to a degree or diploma.
(2) Scholarships are awarded only if an adequate academic standard is attained.
(3) The annual income of scholarships and bursaries is usually paid in two instalments, one in October and one in February.

2. University Scholarships

(1) Certain scholarships implying exceptionally high achievement are designated "University Scholarships" by Senate.
(2) The winner of a University Scholarship receives the title and status of a "Scholar of the University." Winners of other scholarships do not receive this title or this status.
(3) Each University Scholarship is of a certain maximum amount, but the amount actually awarded depends upon the financial needs of the winner. At present the minimum total value of a University Scholarship is $100.

3. Bursaries

(1) Bursaries are grants in aid of students of good scholarship who need such assistance to enter the University or to complete their course.
(2) The amount of a bursary varies with the need established.
(3) A bursary is renewable upon application and is tenable normally until the student has qualified for his degree or diploma, subject always to the dual condition that the need for it continues and that the standing of the student satisfies the University.
(4) The holder of a scholarship may apply for an additional bursary.
(5) Bursaries are normally paid in two instalments: viz.: one in October and one in February.
(6) Holders of bursaries may be required to undertake a certain amount of work for the University in return for their bursaries. The maximum number of hours any bursary holder may be asked to give is three hours a week throughout the session, or one hour for each dollar of his bursary,—whichever may be smaller.
If a student is able to study while carrying out this bursary obligation as, for example, some library assistants can, the number of hours required may be doubled.

4. Loans

The University has a loan fund of strictly limited amount from which some assistance may be given to particularly deserving students under the following conditions:

(1) Loans are normally made only to students in upper years.

(2) Loans are made only to students of good academic standing who are specially recommended on personal grounds by the Deans of their Faculties.

(3) The loan, if granted, is made on the basis of an agreement between the applicant, or a sponsor of the applicant, and the University. The amount of the loan, the date and manner of its repayment, are made part of the agreement so that the debt may be fully discharged at the earliest possible date.

(4) An applicant for a loan should obtain an application form at the office of his Dean and submit this, when completed, to his Dean for transmission to the Bursar.

5. Interviews

Awards and grants of money are made only after a personal interview unless this requirement is explicitly waived.

6. Applications and Inquiries

Unless otherwise stated below, applications and inquiries should in the first instance be made to the Registrar.

Applications for all entrance scholarships (see page 177), for University bursaries, and for the renewal of bursaries, should be made on forms which may be obtained from the Registrar's Office.

SCHOLARSHIPS OF MEN WHO ENLIST

A student having the status of a University Scholar when he leaves the University to serve in the armed forces of Canada will resume this status when he returns to the University. This rule will also apply to any other scholarships considered by the Scholarships Committee to confer a definite status upon the holder.

This regulation is concerned only with the status of scholars. It has no financial implication. All questions of financial aid in the form of scholarships or bursaries for returned men will be considered in the light of circumstances existing at the time of these applications.

II. ENTRANCE SCHOLARSHIPS AND BURSARIES

A. UNIVERSITY ENTRANCE SCHOLARSHIPS AND BURSARIES

(1) University Entrance Scholarships and Bursaries

The University offers not less than four University Entrance Scholarships, each with a maximum value of $300 a year and a minimum total value of $100 (see page 178), together with a limited number of bursaries of smaller value*, tenable either in the Faculty of Arts and Science or in the Faculty of Engineering, and renewable annually provided that the holders continue to merit the award.

Candidates for these awards are required to submit:

(*a*) their complete High School record,

(*b*) their marks or grades in any recognized matriculation or school-leaving examination,

(*c*) confidential letters from their school principals.

Applications must be made on forms which may be obtained from the Registrar's Office. These must be returned not later than 1st July. The school record and other supporting documents should be sent as soon as they are available.

(2) Eligibility

These scholarships and bursaries are intended for pupils of Public and Private Schools in Canada or elsewhere, but the University may, in exceptional cases, accept applications from other candidates.

Men and women are eligible on equal terms.

Applications will normally be accepted only from students who will be under the age of 20 on 1st October, 1944. In exceptional circumstances the University may waive this rule.

(3) The Title of "Scholar"

The winner of a University Scholarship is given the title of "Scholar". His name is printed as such in the Calendar and he has the status of a Scholar within the University.

**See also the Sir William Macdonald Entrance Scholarships and the Beatty Scholarships on page 178, and the Canadian Pacific Railway Scholarships on page 180.*

After entering the University the winner of a University Scholarships is not required to study for honours, and may be permitted to take the general course.

(4) Financial Need

The University may require the submission of evidence that the candidate needs the money award to further his educational interests. This evidence will normally include a statement from a parent or guardian. Whenever possible, moreover, the candidate will be interviewed. Financial need will in no case affect the University's decision as to the winner of a scholarship, but may influence the amount of the award.

The amount of the award made to any Scholar will not be published.

In special cases the University may consider an application from the winner of a scholarship for additional assistance.

B. OTHER ENTRANCE SCHOLARSHIPS AND BURSARIES

Unless otherwise stated, applications for these scholarships must be made to the Registrar before 1st July.

Unless otherwise indicated, the word "Examination" is used below to denote the University School Certificate Examination, the Provincial High School Leaving Examination, the Catholic High School Leaving Examinations, or any other standard examination recognized for entrance scholarships.

Applicants who have written examinations other than the McGill School Certificate Examination should send a certified copy of their examination marks to the Registrar's Office as soon as they are published.

The Sir William Macdonald Entrance Scholarships in Arts and Science.—Four scholarships of $125 each endowed by Sir William Macdonald and open only to men are awarded under the conditions governing University Entrance Scholarships. (See page 177 for particulars).

The Beatty Scholarships.—Two scholarships, one in Classics (Greek and Latin) and one in Mathematics, of the value of $600 each, have been founded by Sir Edward Beatty, former Chancellor of the University. The scholarships are payable at the rate of $150 per annum for four years, and are tenable only in the Faculty of Arts and Science. The Scholarships are awarded primarily for ability in either Classics or Mathematics, but school and examination records in other subjects may be taken into account. These awards are made under the conditions governing University Entrance Scholarships (see page 177) and candidates will be required to submit:

(*a*) their complete High School record,

(*b*) their marks or grades in any recognized examination,

(*c*) confidential letters from their school principals.

The winner of a Beatty Scholarship on entering the University need not necessarily take courses leading to honours in Classics or in Mathematics, but may enter any course in the Faculty for which he is qualified.

Applications must be made on forms which may be obtained from the Registrar's Office. These must be returned not later than 1st July.

These scholarships are open only to male students, educated in Canadian Schools, whose parents are British or Canadian born.

THE HON. ROBERT JONES BURSARY.—Valued at $120 per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts and Science or Engineering." The bursary is not continued if the standing of the holder proves to be unsatisfactory.

ROBERT BRUCE SCHOLARSHIP AND BURSARY.—One entrance scholarship of $100 for one year is available in the Faculty of Arts and Science.

One bursary of $100 is open each year to "young men and women of promising abilities but of straitened circumstances in Arts and Science or Engineering."

For the first twenty-five years students of Scottish extraction will be given the preference (1923-1947).

*THE OTTAWA VALLEY BURSARIES.—These two bursaries are:—

1. The P. S. Ross Bursary, of the value of $100, founded by Dr. P. D. Ross, B.A.Sc., LL.D., in memory of his father, the late Mr. P. S. Ross.

2. The Ottawa Valley Graduates' Society Bursary of the value of $75.

These bursaries are given through the Ottawa Valley Branch of the Graduates' Society and are open only to bona fide residents of the Ottawa Valley. The winners are selected by the University from candidates who have written (1) The McGill School Certificate Examination or (2) The Quebec Catholic or Protestant High School Leaving Examination or (3) The Ontario Middle School Examination or (4) The McGill Senior School Certificate or (5) The Ontario Upper School Examination.

Applications must reach the Registrar's Office before 1st September.

**Tenable also at Macdonald College.*

CANADIAN PACIFIC RAILWAY SCHOLARSHIPS.—Scholarships covering one year's tuition in the Faculty of Arts and Science and four in Chemical, Civil, Mechanical, or Electrical Engineering, or five years in the School of Architecture, or four years' tuition in the Arts courses of the Faculty of Arts and Science, or in the School of Commerce, or four years in the School of Household Science, Macdonald College, are awarded annually by the Canadian Pacific Railway Company. These are open for competition to apprentices and other employees of the Company under twenty-one years of age, as well as to minor sons and daughters of employees. The method of award is that of the University Entrance Scholarships described on page 177, candidates being required to submit:

(*a*) their complete High School record,

(*b*) their marks or grades in any recognized examination,

(*c*) confidential letters from their school principals.

Forms of eligibility and full particulars as to the number of scholarships available, etc., may be obtained from Mr. F. J. Curtis, Staff Registrar and Secretary, Pension Department, C.P.R. Offices, Montreal. Applications, on forms obtainable from the Registrar's Office, accompanied by statements of eligibility from Mr. Curtis, must reach the Registrar's Office before 1st July.

THE SIDNEY J. HODGSON SCHOLARSHIPS.—Two scholarships, of approximate values $200 and $150 respectively, were founded by Arthur J. Hodgson, Esq., in memory of his son, Sidney James Hodgson, a student of the First Year in Arts, who was killed in action on September 27th, 1918, while serving in the 66th Battery of the Canadian Field Artillery. They are open to pupils of Westmount High School who have been in attendance for at least one year, and are awarded on the result of the June Examinations. The $200 Scholarship is tenable in the Faculty of Engineering and is awarded to the pupil obtaining the highest percentage in the Senior High School Leaving subjects required for admission to that faculty; the $150 Scholarship is tenable in the Faculty of Arts and Science and is awarded to the pupil obtaining the highest percentage in the Junior High School Leaving subjects required for admission to that faculty.

ELIZA REID MEMORIAL SCHOLARSHIP.—*See page 194.*

SCHOLARSHIP GRANTED BY THE GRADUATES' SOCIETY OF THE DISTRICT OF BEDFORD.—This scholarship, tenable in the Arts Division of the Faculty of Arts and Science, has an approximate value of $140 and is awarded annually to a "matriculated student in Arts and Science, proceeding to the degree of B.A., whose parents reside in the District of Bedford and whose candidature has been approved by a committee of the Society."

NARCISSA FARRAND (MRS. N. PETTES) SCHOLARSHIP.—This scholarship, of not less than $300 ($150 for two years), founded by Mr. and Mrs. H. V. Truell, of Sweet Acre, Knowlton, Que., and endowed by them with the sum of $7,000 out of the Narcissa Farrand Fund, is awarded annually to the candidate from the Eastern Townships who obtains the highest marks at the Arts and Science Entrance Examinations in June, and who has had his domicile in the Eastern Townships for five consecutive years immediately preceding the examination.

THE GRACE FAIRLEY TRAFALGAR SCHOLARSHIP.—Founded in 1913 by certain friends and former pupils of the late Miss Grace Fairley, to signalize her long and faithful service to education as head of the Trafalgar Institute. It is of the value of $100, is tenable for one year only, and is awarded annually to the student of Trafalgar Institute who obtains the highest marks in the June School Certificate Examination and enters the Faculty of Arts and Science.

*THE ISABELLA C. MACRAE SCHOLARSHIP.—This scholarship of $125 is open to residents of Maxville, Ont., who have satisfied the requirements for entrance to McGill University. Should there be no successful applicants from this locality for six years, the scholarship will subsequently be open to any resident in Ontario.

ROYAL VICTORIA COLLEGE ENTRANCE SCHOLARSHIPS (see page 193).

*THE CHRISTIE-STORER CHAPTER SCHOLARSHIP.—A scholarship of the value of $150 endowed by the above-named Chapter of the I.O.D.E. in memory of the men of St. Lambert who fell in the Great War, 1914-1918, is awarded annually to the pupil of St. Lambert High School who stands highest in the June High School Leaving Examination each year, provided that the pupil's aggregate is at least 700 marks out of a possible 1,000.

THE UNITED THEOLOGICAL COLLEGE BURSARIES.—The Board of Governors of the United Theological College offers bursaries to be used towards the payment of fees of undergraduates in Arts and Science who are registered at this College as in training for the study of theology with a view to the Christian Ministry and who have passed with credit the sessional examinations. For particulars, application should be made to the Principal, 3520 University Street, Montreal.

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*_Tenable also at Macdonald College._

†Presbyterian College Scholarships.—The Board of Management of the Presbyterian College offers a number of scholarships for the payment of fees of undergraduates in Arts and Science who are registered at the Presbyterian College as in training for the study of theology with a view to the Ministry and who have creditably passed the sessional examinations. For further particulars, application should be made to the Principal, the Presbyterian College, 3485 McTavish Street, Montreal.

University Bursaries (see page 183).

*Khaki University and Y.M.C.A. Memorial Scholarship Fund (see page 184).

*Leonard Foundation Scholarships (see page 184).

Women Associates of McGill Bursary (see page 185).

**Tenable also at Macdonald College.*
†Not to be awarded until further notice.

III. SCHOLARSHIPS, BURSARIES, LOAN FUNDS, MEDALS AND PRIZES OPEN TO UNDERGRADUATE STUDENTS REGISTERED IN THE UNIVERSITY

A. OPEN TO STUDENTS IN ALL FACULTIES

UNIVERSITY SCHOLARSHIPS.—University Scholarships with a maximum value of $300 a year (see page 175) may be awarded by the University Scholarships Committee to students in any year of any undergraduate faculty. They are awarded for exceptionally distinguished work in the regular University examinations and special applications are not required.

UNIVERSITY BURSARIES.—The University has established a number of bursaries open to students in all faculties and schools. The general regulations governing the award of these are stated on page 175. Application must be made on a special form and forwarded to the Registrar. The forms may be obtained from the Registrar's Office and must be returned before the end of July.

DOMINION-PROVINCIAL LOANS AND BURSARIES.—The Dominion and Provincial Governments jointly offer a number of bursaries and combined bursaries and loans to university students. To be eligible an applicant must be a British subject with at least five years residence in the Province of Quebec, must be an undergraduate in good standing, not a student in theology, and must be in need of financial assistance. The grants are divided into three sections, two of which make special provision for students in science, engineering and medicine. For further particulars apply to the Registrar's Office.

*B'NAI B'RITH BURSARIES.—Three bursaries of $100 each for the 1943-44 session have been given to the University by the Mount Royal Lodge of B'nai B'rith. These bursaries are open to men and women students in any faculty. Need and scholarship will determine the award. Applications in writing must reach the Registrar before the end of August, 1943.

*FREDERICK SOUTHAM KER BURSARY.—This bursary was established in 1941 by Mr. F. N. Southam in memory of his grandson, Frederick Southam Ker, who was killed in action on September 6th, 1940. This bursary is open on equal terms to men and women of all faculties without respect to religion or race. It is awarded to a student who gives promise of becoming a good citizen but is handicapped in his or her academic course by lack of funds. Financial need, character, and academic record are all taken into account in making the award.

*These awards are also tenable at Macdonald College.

National Council of Jewish Women of Montreal Bursaries.—The National Council of Jewish Women of Montreal offers each year a limited number of bursaries. The value of each award is normally $100 and preference is given to Jewish students. These bursaries are awarded by the Council upon the recommendation of the University Scholarships Committee. Academic standing and financial need are both taken into consideration in making the award. Application should be made on the ordinary University Bursary application form.

*Khaki University and Y.M.C.A. Memorial Scholarship Fund.—The interest on this fund is awarded in scholarships by the Scholarships Committee subject to the following two conditions:

(i) that the scholarships may be held by undergraduates only.

(ii) that the preference is given to sons and daughters of soldiers:

(a) who served in the Great War.

(b) who serve in the present war.

*Leonard Foundation Scholarships.—The Leonard Foundation created in 1916 by the late Colonel Reuben Wells Leonard and Mrs. Leonard offers each year a number of scholarships tenable at schools, colleges, and universities in Canada, approved by the Foundation.

The scholarships are open to men and women. A student to be eligible must be "a British subject, of the white race, of the Christian Religion in its Protestant form, and of the full age of fourteen years."

The amount of the award will vary with the need of the winner.

Sons and daughters of the following are given preference in the selection of scholars:

(a) Clergymen, (b) School Teachers, (c) Officers, Non-Commissioned Officers and Men, whether active or retired, of His Majesty's naval, military, or air forces, (d) Graduates of the Royal Military College, (e) Members of the Engineering Institute of Canada, (f) Members of the Mining and Metallurgical Institute of Canada.

The University is willing to endorse and forward with its recommendation applications of any candidates who may wish to apply through the University and are approved by it.

Such candidates must make their applications on forms to be obtained from the Registrar's Office and must return these to the Registrar before the 1st February, 1944.

A booklet giving further particulars may be consulted in the Registrar's Office.

**These awards are also tenable at Macdonald College.*

WOMEN ASSOCIATES OF McGILL BURSARY.—A bursary of approximately $125 is available each year to men and women students in any Faculty. Scholarship and need will determine the award. The winner will be chosen by the Executive of the Women Associates of McGill from a list of candidates recommended by the Scholarships Committee and selected from the applicants for University bursaries. (See page 175).

ALLIED NATIONS BURSARIES.—Ten bursaries of $100 each to be awarded under the following conditions: (1) the bursaries are open only to refugees from the Allied Nations whose countries have been overrun by the enemy, (2) the bursaries are open on equal terms to men and women, (3) the scholastic standing of the applicants must be high, (4) applicants must need financial assistance to enable them to undertake or continue their university course, and (5) the Selection Committee when making the awards will take into consideration the candidates' general and personal qualifications for the careers they intend to adopt.

SPECIAL DOMINION GOVERNMENT LOANS.—A limited sum of money has been placed at the disposal of the University by the Dominion Government for loans to students engaged in preparation for essential war work who are not eligible because of residential qualifications for the Dominion-Provincial Bursaries of Quebec or other provinces. For application forms and further details of these special loans apply to the Registrar's Office.

POST DISCHARGE RE-ESTABLISHMENT ORDER.—Under an Order-in-Council of 1st October 1941 (P.C. 7633) the Dominion Government has established educational grants for men and women who return from active service. The grant is $9.00 a week to a single person and $13.00 a week to a married person and will be paid for as many weeks as the recipient was on active service. In addition the Government will pay the full fees for this period. A copy of the Order-in-Council may be seen in the Registrar's Office.

PRIZES

CHESTER MACNAGHTEN PRIZE.—This prize, which may be divided, has at present a value of approximately $70. It is offered annually for the best piece of creative writing in English submitted by a student of the University. The work submitted may be fiction, drama, essay, etc., and may be in prose or verse. Compositions that have appeared in print are not ineligible provided they have been published since 1st March, 1943. Compositions must be typed and must reach the Registrar before the 1st March, 1944.

NEIL STEWART PRIZE.—An annual prize of $20 in the Hebrew Language and Literature, established by Mr. Neil Stewart of Vankleek Hill in 1878, is open to students in the University and in the affiliated Theological Colleges.

LOAN FUNDS

Applications for loans should be made through Deans of Faculties or Directors of Schools.

University Loan Fund.—A Student Loan Fund has been established by the University to assist needy students in all Faculties. Loans are made normally only to students in upper years (see page 176), with good academic standing.

Ontario Graduates' Society Loan Fund.—This loan fund open to students in all Faculties has been established by the Ontario Branch of the Graduates' Society.

Commercial Society Loan Fund.—For students in Commerce (see page 195).

The "Class of 1899 Fund".—For students in Engineering (see page 201).

The George Henry Frost Fund.—For students in Engineering (see page 201).

The Waddell Loan Fund.—For students in Engineering (see page 201).

The Canadian Institute of Mining and Metallurgy Loan Fund.—For students in Engineering (see page 201).

B. OPEN TO STUDENTS IN THE FACULTY OF ARTS AND SCIENCE

For details of Entrance Scholarships see pages 177 and 178.

For scholarships open to women only see page 193.

For Scholarships, Bursaries and Loan Funds open to undergraduates in all Faculties see page 183.

For awards open to Graduate Students see page 207.

GENERAL REGULATIONS IN ARTS AND SCIENCE

1. Only students in regular undergraduate standing are eligible for scholarships.

2. Scholarships will be awarded only if an adequate standard is attained.

3. If in any college year there is not a sufficient number of candidates showing adequate merit, any one or more of the scholarships offered for competition may be given to more deserving candidates in another year.

4. In order to retain his scholarship a successful candidate must proceed regularly with his college course to the satisfaction of the Faculty.

5. The annual income of the scholarships will be paid in two instalments, viz.:—One in October and one in February.

SECOND YEAR SCHOLARSHIPS

GROUP I.

Six scholarships usually of a minimum value of $100 each are offered to students advancing from the first to the second year for general proficiency in particular subjects of study. The awards will be made on the basis of the students' complete academic records and on recommendations from the departments in which they have taken their courses.

GROUP II.

The following scholarships are also offered, according to the terms indicated, to students advancing from the first to the second year.

THE CHARLES ALEXANDER SCHOLARSHIP.—Established in 1870 by Charles Alexander, "for the encouragement of the study of Classics and other subjects." Value $100.

THE JANE REDPATH EXHIBITION.—Founded by the late Mrs. Redpath, for the maintenance of an exhibition in Arts and Science. It is awarded on the result of the sessional examinations of the First Year to the student who makes the highest average on the year's work. Value $100.

THE BARBARA SCOTT SCHOLARSHIP.—Founded by the will of the late Barbara Scott to form an annual scholarship for the student "excelling in Classics in the First Year." Value $80.

THE MARGARET JANE ALLAN SCHOLARSHIP.—This scholarship, of $200, was established in 1929 by a bequest to the Royal Victoria College from Mrs. Agnes W. Allan. It is awarded each year to the woman student in either the B.A. or the B.Sc. courses in Arts and Science who obtains the highest standing in the sessional examinations of the First Year.

SCHOLARSHIPS TENABLE IN THE SECOND, THIRD OR FOURTH YEARS

GROUP III.

SIR WILLIAM MACDONALD SCHOLARSHIPS.—Six scholarships of $125 each are open to men students in the Second, Third, and Fourth Years for the session 1944-45.

†The Sir William Dawson Scholarship.—Given by the New York Graduates' Society; value $60. Open also to students in Engineering.

The Dr. Barclay Scholarship.—Awarded in the Classical Department, value $50.

The Reford Scholarship.—The interest on this fund, amounting to about $200 per annum, will be equally divided each year and placed at the disposal of the Departments of English and Philosophy.

The Houston Scholarship.—Founded by the will of Thomas Houston, to establish a scholarship for French students studying for the ministry of the Presbyterian Church or the United Church of Canada. It is open only to undergraduates in the Faculty of Arts and Science under the above restriction and is awarded on the result of the sessional examinations without regard to year. The value is about $70.00.

Peterson Memorial Scholarship in Classics.—Founded in memory of Sir William Peterson, Principal of McGill University from 1895 to 1918, by his son, W. G. Peterson, M.A. This scholarship of the total value of $400 ($200 a year for two years) is open to students in any year. The winner is nominated by the Faculty of Arts and Science.

Abbott Scholarships (see page 203).

The Major Hiram Mills Scholarship.—This scholarship, of the value of $120 is open to students in any of the biological sciences including Anatomy, Bacteriology, Biochemistry, Botany, Genetics, Physiology, and Zoology. It is open to both men and women.

THIRD YEAR SCHOLARSHIPS

Group IV.

Eight or more scholarships usually of a minimum value of $100 each are offered to students advancing from the second to the third year in both the General Course and the Honours Courses*, on the basis of academic record and recommendations from departments.

*The subjects of study for Honours Courses are as follows:—Bacteriology, Biochemistry, Biological Sciences, Botany, Chemistry, Latin, Greek, Economics, Political Science, English, French, Geology, German, History, Mathematics, Philosophy, Physics, Physiology, Psychology, Sociology, Zoology, and combined courses in two of the above subjects.

Group V.

The following scholarships are also offered, according to the terms indicated, to students advancing from the second to the third year.

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†Not to be awarded until further notice.

ROBERT BRUCE SCHOLARSHIP.—From a fund, created by the will of the late Robert Bruce, of Quebec City, one scholarship of annual value of $75, tenable for two years, will be awarded for high standing in the examinations at the end of the Second Year.

THE CHARLES WILLIAM SNYDER MEMORIAL SCHOLARSHIP.—This scholarship, founded by L. P. Snyder, Esq., in memory of his son, Charles William Snyder, a student of First Year Arts, who was killed in the Battle of Sanctuary Wood on June 2nd, 1916, is of the value of $250. It is awarded annually on the results of the examinations in English and Economics of the Second Year, and is subject to the condition that the holder take an Honours Course in English, with Economics as a minor subject in his Third Year, or the Honours Course in English and Economics. It is open to male students in the Faculty of Arts and Science professing the Christian religion.

THE ALEXANDER MACKENZIE SCHOLARSHIPS.—One scholarship of the value of $215 is awarded annually on the results of the honours examinations of the Second Year in Political Science and is open only to a student who has completed the work of that year. Tenure of the scholarship is conditional upon the holder's taking the honours work in Political Science of the Third Year. (See also Group VI).

THE HANNAH WILLARD LYMAN MEMORIAL SCHOLARSHIP of the value of $80 is awarded annually to a woman student of the third or fourth year.

DELTA PHI EPSILON SORORITY BURSARY.—This bursary, founded by the Delta Phi Epsilon Sorority in memory of Edith Silver, is of the value of $100 and is open to a woman student entering the Third Year of the Faculty of Arts and Science.

For other third year scholarships see also Group III.

FOURTH YEAR SCHOLARSHIPS

GROUP VI.

Students advancing to the Fourth Year who have distinguished themselves in the general course or in honours courses may be recommended to Senate by the Faculty for the renewal of a scholarship previously held or for the award of a University Scholarship.

THE JAMES DARLING MCCALL SCHOLARSHIP.—This scholarship was founded by J. T. McCall, Esq., in memory of his son, James D. McCall, B.Sc., who was drowned shortly after the war, in which he served with distinction. This scholarship is awarded each year to a male student of the Fourth Year professing the Christian religion, who is taking honours in English or in Philosophy or in both these subjects. It is of the value of $250.

THE ALEXANDER MACKENZIE SCHOLARSHIPS.—One scholarship of the value of $215, is awarded annually on the results of the honours examinations of the Third Year in Political Science and is open only to a student who has completed the work of that year. Tenure of the scholarship is conditional upon the holder's taking the honours work in Political Science of the Fourth Year (see also Group V).

For other fourth year scholarships see Group III and Group V.

MEDALS IN ARTS AND SCIENCE

The following medals are awarded to the graduating students who stand highest in the First Class Honours List of the subjects named, provided the Faculty so recommends to Senate:—

The Henry Chapman Gold Medal, for Classical Languages and Literature.

The Prince of Wales Gold Medal, for Mental and Moral Philosophy.

The Anne Molson Gold Medal, for Mathematics and Natural Philosophy.

The Shakspere Gold Medal, for English Language and Literature.

The Logan Gold Medal, for Geology, Mineralogy and Palæontology.

The Major Hiram Mills Gold Medal, for Biology.

The Governor-General's Gold Medal, for Modern Languages and Literature.

The Governor-General's Silver Medal awarded to the student standing highest among those graduating "with great distinction" in the general course.

The Lieutenant-Governor's Silver Medal awarded to the student who stands second among those graduating "with great distinction" in the general course.

The Allen Oliver Gold Medal, for Economics and Political Science (founded by Mrs. Frank Oliver, in memory of her son, the late Allen Oliver, B.A., M.C., Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme, on November 18th, 1916).

The Lieutenant-Governor's Silver Medal, in History.

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of French Language and Literature.

If there is no candidate for any medal, or if none of the candidates fulfils the required conditions, the medal is withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

PRIZES IN ARTS AND SCIENCE

ANNIE MACINTOSH PRIZE.—The endowment of this prize was contributed by friends and pupils of the late Miss Annie Macintosh and by a special gift of the late Miss I. G. Macintosh. The present value of the prize is $50. It is offered as a prize or prizes to students of the Royal Victoria College in such subject or for such work as the Faculty may determine.

PENHALLOW PRIZE IN BOTANY.—An annual prize of $25, endowed by the Arts Undergraduate Society in 1911, is awarded to the graduating student whose complete record shows the highest first class standing in Botany. At least 4 full courses in the subject must have been taken, and Honours students will receive preference.

HENRY CHAPMAN PRIZE.—A book prize of the value of $20 is given in modern languages (excluding English), or in Hebrew.

THE CHESTER MACNAGHTEN PRIZE (see page 185).

THE CHERRY PRIZE.—This prize of books, founded by Wilbur H. Cherry, Arts 1907, and Anna Cherry, Arts 1918, in memory of their father, William Cherry, Med. 1869, and of their brother, William McFie Cherry, Arts 1911, is awarded annually by the Department of Economics and Political Science to the student who is, in the opinion of the Department, deserving of such recognition.

PETERSON MEMORIAL PRIZE IN LITERATURE.—This prize, founded by W. G. Peterson, M.A., in memory of his father, Sir William Peterson, Principal of McGill University from 1895-1918, is of such value as may be determined from time to time and is awarded to the undergraduate, or graduate, student who in addition to having achieved distinction in English Literature has given evidence of creative literary ability.

THE DORA FORSYTH PRIZE.—An annual prize amounting to the interest annually on $1,000 bequeathed by the late Miss Jeanie Forsyth for English Literature. This prize is open to women students only and is awarded to a candidate recommended by the Department of English Language and Literature and approved by the Faculty of Arts and Science.

FANTHAM MEMORIAL PRIZE IN ZOOLOGY.—This prize of $50, endowed by Dr. Annie Fantham in memory of her husband, Professor H. B. Fantham, late Strathcona Professor of Zoology and Head of the Department, is awarded annually to the graduating student who has taken the full honours course in Zoology and who ranks highest of those obtaining first class honours in this subject. The prize is open to men and women.

MADELENE HODGSON PRIZE IN HISTORY.—An annual prize of $15 endowed by the Imperial Order Daughters of the Empire in recognition of the work done by Mrs. W. C. Hodgson as President of the Provincial Chapter of Quebec. The prize is awarded to the Third Year Honours student in History who in the opinion of the Department of History has done the most outstanding work in this subject.

HISTORICAL SOCIETY'S PRIZE.—This prize is endowed by a fund belonging to the Historical Society. The award is made jointly by the Executive of the Historical Society and the Chairman of the Department of History to the male undergraduate in the First Year who has shown the greatest promise in History and intends to read for Honours in this subject, and is awarded in books.

ANNE MOLSON PRIZE IN CHEMISTRY.—A prize of $100 awarded annually to the student with the highest record among those graduating with First Class Honours in Chemistry.

PRIZES IN BOTANY AND ZOOLOGY.—A sum of $50 is awarded annually as a prize or prizes in the Departments of Botany and Zoology for original summer collections. Candidates should consult these Departments concerning the collections to be made.

ORNITHOLOGY PRIZE.—A prize of $10 given by Mrs. Christine L. Henderson, to be spent by the winner upon books of his choice relating to natural history. At present this prize is awarded to the student standing highest in the first class in the examination in Advanced Vertebrate Zoology.

ETHEL WALKEM JOSEPH PRIZE.—The Wolfe and Montcalm Chapter of the Imperial Order Daughters of the Empire has endowed an annual prize in the Department of Education as a tribute to Mrs. Henry Joseph, Regent of the Chapter.

MARION MCCALL DALY PRIZE.—A prize of $50 awarded each year to a woman student who has completed the second year and is entering the third year of the Faculty of Arts and Science at the University. The award is made by the University Scholarships Committee in consultation with the President of the McGill Women's Union and some other senior woman student chosen by the Committee. In making the award the Committee takes into account (a) the candidate's promise of making a definite contribution to Canadian life, (b) the financial need of the candidate, and (c) the academic record of the candidate.

For awards open to graduates see page 207.

BURSARIES

LOGAN BURSARIES.—A part of the interest of the Logan Medal Fund, amounting to about $200 a year, may be awarded upon the recommendation of the Department of Geological Sciences to undergraduate or graduate students in that department.

Applications should be made in writing to the Chairman of the Department of Geological Sciences before the 31st August.

C. OPEN TO STUDENTS OF THE ROYAL VICTORIA COLLEGE

ENTRANCE SCHOLARSHIPS

ROYAL VICTORIA COLLEGE ENTRANCE SCHOLARSHIPS.—Two scholarships, open to women only and conditional on residence in the Royal Victoria College, are offered each year, one of the value of $200 and one of $100. These are awarded on the result of the McGill School Certificate or Senior School Certificate or other approved examinations.

ADDITIONAL SCHOLARSHIPS

For a statement of the scholarships, bursaries, and loan funds open to women students of the University, see pages 177, 178, 183, 186.

RESIDENT BURSARIES.—In addition to these, four resident bursaries in all, of the value of $200 each, are available for outstanding students of the second, third and fourth years who may be nominated by the Warden. In exceptional cases one or more of these may be awarded to first year students.

SPECIAL SCHOLARSHIPS ADMINISTERED BY A COMMITTEE OF THE ALUMNAE SOCIETY

ETHEL HURLBATT SCHOLARSHIP.—A scholarship of the annual value of $100 to be known as the Ethel Hurlbatt Scholarship, in memory of the late Dr. Ethel Hurlbatt, a former Warden, has been founded by the Alumnæ Society and will be awarded annually to a distinguished student of the 2nd, 3rd or 4th year.

SUSAN CAMERON VAUGHAN SCHOLARSHIP.—A scholarship of the annual value of $100 to be known as the Susan Cameron Vaughan Scholarship in honour of Mrs. Walter Vaughan, retired Warden, has been founded by the Alumnae Society and will be awarded annually to a distinguished student of the 2nd, 3rd, or 4th year.

HELEN R. Y. REID SCHOLARSHIP.—A scholarship of the annual value of $100 made possible by a legacy from the estate of the late Dr. Helen R. Y. Reid, to be known as the Helen R. Y. Reid Scholarship will be awarded annually to a distinguished student of the Second, Third or Fourth Year.

ELIZA REID MEMORIAL SCHOLARSHIP.—Founded by Montreal Women's Club in memory of the first President of the Club, Mrs. Robert Reid. This scholarship of the value of $150 is tenable for one year, with a maximum of four years to any one student, and is awarded to a chosen graduate of The Montreal High School for Girls.

THE LOCAL COUNCIL OF JEWISH WOMEN OF MONTREAL offers an annual scholarship of $100 to be given to a deserving student of the College in need of this financial assistance, the award to be made by the Scholarship Committee of the Alumnae Society.

THE B'RAI B'RITH MOUNT ROYAL WOMEN'S AUXILIARY No. 257 offers an annual scholarship of $100 to be given to a deserving student of the college in need of this financial assistance, the award to be made by the Scholarship Committee of the Alumnae Society.

ALUMNAE SOCIETY BURSARIES AND LOANS.—In addition to the above, a limited number of bursaries and loans are offered by the Alumnae Society through its Scholarship Committee.

Students interested in bursaries and loans should consult the Warden before the opening of the Session.

D. OPEN TO STUDENTS IN THE SCHOOL OF COMMERCE

For scholarships and bursaries open to undergraduates in all Faculties see page 183.

SCHOLARSHIPS AND PRIZES

ISAAC BRUCK SCHOLARSHIPS.—The Bruck Silk Mills presents $500 annually to the University to provide two scholarships in the School of Commerce.

The scholarships may be held by students in the Second, Third or Fourth year of the School, and are awarded annually without respect to race or sex by The Faculty of Arts and Science upon the results of the sessional examinations in the School.

THE F. W. SHARP PRIZE IN ACCOUNTANCY AND MATHEMATICS.—This will be awarded at the end of the Fourth Year to the best student in Accountancy, Business Organization and Mathematics. Value $50.00.

JOSEPH H. JACOBS PRIZE.—The sum of $650.00 was received from the executors of the estate of the late Joseph H. Jacobs. The annual revenue from this bequest, which is approximately $25, will be awarded as a prize for Second Year Accountancy.

PROVINCE OF QUEBEC ESSAY PRIZES.—Each year the Provincial Government offers three prizes for an essay on a commercial subject. The values of the prizes are $50, $35, and $15. Students who have completed their first year in the School of Commerce of McGill University are eligible.

The subject is announced at the beginning of the academic year and the essays must be submitted before the 15th May.

Further details may be obtained from the Director of the School of Commerce.

CHESTER MACNAGHTEN PRIZE (see page 185).

MEDALS

THE CHANCELLOR'S MEDAL.—A gold medal endowed by Sir Edward Beatty, former Chancellor of the University, is offered to the student in the School of Commerce who attains the highest distinction in Economics. At present, it is awarded on the basis of the aggregate marks for the three full year courses. Elements of Political Economy, Money and Banking, and Economic Distribution.

LIEUTENANT-GOVERNOR'S MEDALS.—A silver medal and a bronze medal have been offered to the School of Commerce by his Honour the Lieutenant-Governor of the Province of Quebec, the silver medal for the student with the highest average throughout the last three years of study; the bronze medal for the one who has the second highest average throughout the last three years of study.

LOAN FUNDS

COMMERCIAL SOCIETY LOAN FUND.—A fund has been established by the Commercial Society to be known as "The Commercial Society Loan Fund," for the purpose of aiding each year one or more students of the School of Commerce who are entering their fourth year, to complete their course. Loans from this Fund are repayable within two years after graduation. Application should be made to the Dean of the Faculty of Arts and Science.

OTHER LOAN FUNDS (see page 176).

E. OPEN TO STUDENTS IN THE FACULTY OF ENGINEERING

(Including Architecture)

For scholarships and bursaries open to undergraduates in all Faculties see page 183.

ENTRANCE SCHOLARSHIPS

WORKMAN STUDENTSHIP.—The University accepts one nomination each year for a full course in Mechanical Engineering from the executors of the estate of the late Thomas Workman, provided the student nominated

(1) is a resident of Quebec,

(2) has obtained in the examinations qualifying for admission to the University the standard required by the Scholarships Committee for University Entrance Scholarships or Bursaries.

For other entrance scholarships see pages 177 and 178.

AWARDED ON THE RESULTS OF THE SESSIONAL EXAMINATIONS OR FOR SPECIAL THESES

BRITISH ASSOCIATION SECOND YEAR PRIZES.—Two British Association prizes of $40 and $20, at the end of the Second Year, to the students obtaining the highest, and the second highest aggregate marks, respectively, in the sessional examinations in Algebra, Calculus, and Mechanics of the Second Year.

SCOTT EXHIBITION.—A Scott exhibition of $40, founded by the Caledonian Society of Montreal, in commemoration of the centenary of Sir Walter Scott, and a British Association prize of $20, to the students obtaining the highest, and the second highest aggregate marks, respectively, in the sessional examinations in Mathematics, Descriptive Geometry, and Physics of the First Year.

TIGHE PRIZE.—A prize of $50, presented by Mr. James L. Tighe, B.A.Sc., for research work in Hydraulics.

ANGLIN-NORCROSS PRIZE.—A prize of $25, presented by the Anglin-Norcross Corporation Limited, to the student obtaining the highest marks in Architectural Drawing in the School of Architecture.

ANGLIN-NORCROSS PRIZE.—A prize of $25, presented by the Anglin-Norcross Corporation Limited, to the student obtaining the highest marks in Architectural Engineering in the School of Architecture.

THE LOUIS ROBERTSON PRIZE.—Founded by Mr. and Mrs. John A. Robertson, in memory of their son, John Louis Armour Robertson, who was killed in the Great War on July 18th, 1916, to be awarded in the form of books to the undergraduate student who ranks highest in Design in the Final Year of the School of Architecture.

PHILIP J. TURNER PRIZE.—A prize of $20 presented by Mr. A. B. Darbyson, a graduate in the School of Architecture of the Class of 1915, to the student obtaining the highest marks in Building Construction of the Second Year course in Architecture.

MONTREAL, LIGHT, HEAT AND POWER PRIZES.—Prizes amounting to $200, are given by the Montreal Light, Heat & Power Consolidated to the students who obtain the highest standing in the graduating class in the Department of Electrical Engineering.

The following prizes are offered for the best summer essays:—

HERSEY PRIZE.—To students in Metallurgical Engineering, a prize of $25, presented by Milton L. Hersey, Esq., D.Sc.

ENGINEERING INSTITUTE OF CANADA PRIZES.—The Engineering Institute of Canada offers each year a prize of books or instruments to the value of $25 for the best paper in any branch of engineering received from an English-speaking Student or Junior of the Institute in the Province of Quebec. This prize is known as the Phelps Johnson Prize; another of the same value, the Ernest Marceau Prize, is awarded for the best paper in French. Similar prizes are open to those located in other provinces. The successful papers become part of the literature of the Institute and place the authors in prominent touch with the engineering profession. Further particulars may be obtained from L. Austin Wright, General Secretary, 2050 Mansfield Street, Montreal.

ENGINEERING INSTITUTE OF CANADA PRIZE.—The Engineering Institute of Canada also offers each year a prize of $25 to the student of the Third Year whose standing, considered in combination with his activities in student engineering organizations, is, in the opinion of the Faculty, most meritorious.

CANADIAN INSTITUTE OF MINING AND METALLURGY PRIZES.—Three prizes, one of $25 and the President's gold medal, and two of $25 each, are offered annually for the best papers submitted by student members to the Canadian Institute of Mining and Metallurgy.

UNDERGRADUATES SOCIETY'S PRIZES.—The sum of $50 has been voted by the Undergraduates Society of the Faculty of Engineering, to be given as prizes for the best summer essays submitted by students. $25 is awarded for the best essay, $15 for the second and $10 for the third.

THE NATIONAL BREWERIES LIMITED PRIZES.—The sum of $25 has been donated by the National Breweries Limited to provide prizes for summer essays submitted by students entering the second year. For the session 1943-44 the sum will be divided into a first prize of $15 and a second prize of $10.

†SIR WILLIAM DAWSON SCHOLARSHIP.—A Sir William Dawson Scholarship, given by the New York Graduates' Society; value $60; open also to students in Arts and Science (see page 188).

SOCIETY OF CHEMICAL INDUSTRY PRIZE.—A prize of $50 is offered by the Montreal Section of the Society of Chemical Industry (Canadian Section) for an original essay on a chemical subject. Undergraduate students, other than those in their final year, are eligible to present papers. Further particulars may be obtained from the Registrar's Office.

AMERICAN SOCIETY OF METALS PRIZE.—A prize in selected metallurgical books to the value of $10.00 is offered, by the Montreal Chapter of the American Society for Metals, to the student graduating in Metallurgical Engineering who obtains the highest mark, provided he obtains honours standing in the subjects of Metallography and Thesis combined.

THE ROBERT FORSYTH PRIZE IN CIVIL ENGINEERING.—Under the will of the late Miss Jeanie Forsyth the interest on $1000 is awarded each year, if the examiners so recommend, to a "worthy and needy" student of the graduating class who secures high standing in the subjects of Theory of Structures and Strength of Materials.

INSTITUTE OF RADIO ENGINEERS PRIZES.—Each year two prizes will be offered to students of McGill and other approved universities for the best papers on radio engineering or some closely allied subject. The first prize is $25 and the second prize is a student membership in the Institute of Radio Engineers for a period of two years. Essays, which may be written in French or English, must reach the office of the Dean of the Faculty of Engineering not later than the 30th of November 1943.

CHESTER MACNAGHTEN PRIZE (see page 185).

AWARDED AT THE DISCRETION OF THE FACULTY

THE HON. ROBERT JONES BURSARY.—Of the value of $120 per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts and Science or Engineering."

The scholarship is continued until the holder graduates if his academic standing is entirely satisfactory. Applications should be made to the Dean of the Faculty.

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†Not to be awarded until further notice.

THE BAYLIS SCHOLARSHIP.—Founded in memory of Mr. and Mrs. James Baylis, of Montreal, and having an annual value of $100, is awarded to some student entering the Second Year who is in need of financial assistance. The scholarship will be continued during the Third and Fourth Years, if the standing of the student continues to be satisfactory.

Application should be made through the Dean of the Faculty.

DOUGLAS TUTORIAL BURSARIES.—The late Dr. James Douglas, who was a member of the Board of Governors, provided for twelve or more tutorial bursaries of approximately $75 per annum in the Faculty of Engineering. In assigning these, the circumstances of the applicants as well as their academic standing are considered. These bursaries carry the obligation of giving tutorial instruction equivalent to one evening a week. Students in the Third and Fourth Years of Engineering are eligible.

H. M. MACKAY MEMORIAL SCHOLARSHIP.—This scholarship will be awarded during the summer of 1944 to a student of British citizenship who has then completed the First Year in Engineering and intends to enter the Second Year in September, 1944. A committee appointed by the Faculty selects the scholar, having in mind the results of the First Year sessional examinations, general character, industry, and other qualities desirable in an engineer. The value of the scholarship is $135. Payment is withheld if the scholar's progress is unsatisfactory. If no candidate of sufficient merit applies, the scholarship is not awarded. Written applications must be made to the Dean's Office on or before May 31st.

THE JENKINS BROS., LTD., SCHOLARSHIP.—Supported by Messrs. Jenkins Bros., Ltd., and having an annual value of $200, is open to all Engineering students entering the Fourth Year in September 1944 and is awarded on the basis of academic standing and personality. Written application should be made to the Dean's office on or before May 31st.

THE NEVIL NORTON EVANS SCHOLARSHIP.—This Scholarship of $100 a year was established in 1937 by graduates of the Faculty of Applied Science (Engineering), and is open to students of the Faculty of Engineering who show outstanding ability in Chemistry. The award will be made by the Faculty of Engineering and the Department of Chemistry. No application is required.

BURSARIES

THE ANGLIN BURSARY.—Of the value of $200, is given annually by Mrs. Anglin in memory of her husband, the late Mr. J. P. Anglin, B.Sc., 1906. It will not be available for the 1943-44 session.

PROVINCE OF QUEBEC MINING BURSARIES.—Each year the Department of Mines of the Province of Quebec offers a number of bursaries to enable students to take a university course in mining engineering, metallurgy, or geology. The maximum annual value of these scholarships is $650 for a student who has to live away from home in order to attend the University, and $325 for a student who can live at home. Candidates must be Canadians and have lived for at least five years in the Province of Quebec. Further information may be obtained from the Registrar's Office.

BURSARY OF THE CORPORATION OF PROFESSIONAL ENGINEERS.—The Corporation of Professional Engineers presents annually a bursary of the value of $100, tenable by a student in the third or fourth year of the Faculty of Engineering and awarded by the Faculty.

For information concerning bursaries open to undergraduates in all Faculties see page 183.

MEDALS

BRITISH ASSOCIATION MEDAL.—This medal is open for competition to students of the graduating class in each of the Engineering courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examinations. The British Association Medals were founded by the British Association for the Advancement of Science in commemoration of its meeting held in Montreal in 1884.

CANADIAN INSTITUTE OF MINING AND METALLURGY MEDAL.—A gold medal and two prizes are offered by the Canadian Institute of Mining and Metallurgy. For further particulars, see page 197.

THE LIEUTENANT-GOVERNOR'S SILVER MEDAL.—Awarded to the student ranking highest in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

THE LIEUTENANT-GOVERNOR'S BRONZE MEDAL.—Awarded to the student obtaining the second place in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

THE ROYAL ARCHITECTURAL INSTITUTE OF CANADA MEDAL.—A medal is offered annually to the student who has completed the entire course at a recognized School of Architecture, who has obtained high marks throughout his course, and who gives promise of being an architect of distinction after graduation. British subjects only are eligible for this award.

LOAN FUNDS

THE "CLASS OF 1899 FUND".—Established by the "Applied Science" Class of 1899, to aid each year one or more students who, upon the completion of their Second Year, require assistance to enable them to finish their course. Loans from this fund are repayable after graduation. Applications should be made to the Dean.

THE GEORGE HENRY FROST FUND.—Founded by the late G. H. Frost, B.Sc. '60, to aid students who, when commencing the work of the second or a subsequent year in the Faculty of Engineering, require financial assistance. In making loans from this fund the academic standing of the applicants is considered. Applications should be made to the Dean.

THE WADDELL LOAN FUND.—Founded by the late J. B. Waddell, Esq. Loans are made under the same conditions as apply to the George Henry Frost Fund, except that the benefits are available to graduate students as well as to undergraduates. Applications should be made to the Dean.

THE CANADIAN INSTITUTE OF MINING AND METALLURGY LOAN FUND. —Founded by the Montreal Women's Auxiliary of that organization for the assistance of Engineering students in Mining, Metallurgy, Geology and allied subjects. Applications should be made to the Dean.

OTHER LOAN FUNDS (see page 186).

For awards open to Graduate Students see pages 207 and 210.

F. OPEN TO STUDENTS IN THE FACULTY OF MEDICINE

For scholarships, bursaries, and loan funds open to undergraduates in all faculties see page 183.

MEDALS

THE HOLMES GOLD MEDAL, founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, M.D., LL.D., one time Dean of the Faculty of Medicine, is awarded to the student graduating with the highest aggregate number of marks in the different branches comprised in the medical curriculum.

The student who wins the Holmes Medal has the option of exchanging it for a bronze and the money equivalent of the gold medal.

THE WOOD GOLD MEDAL, founded by Casey A. Wood, M.D., LL.D., awarded to the student graduating with the highest aggregate number of marks in the clinical examinations of the Final Year. The winner of the Holmes Medal is not permitted to compete for this medal.

THE SUTHERLAND GOLD MEDAL, founded in 1878 by the late Mrs. Sutherland, in memory of her husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in Biochemistry, together with a creditable examination in the primary branches.

THE LIEUTENANT-GOVERNOR'S SILVER MEDAL, to be awarded to the student of the final year, who in the opinion of the Chairman of the Department of Public Health and Preventive Medicine, is most proficient in that subject.

THE LIEUTENANT-GOVERNOR'S BRONZE MEDAL, to be awarded to the student who obtains the highest standing in the Final Examination in Physiology.

PRIZES

THE JOSEPH HILS PRIZE. (Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.)—A prize in books, awarded to the student who obtains the highest number of marks in the subject of Pharmacology.

THE JOSEPH MORLEY DRAKE PRIZE. (Founded by the late Joseph Morley Drake, M.D.)—A prize in books, to be awarded to the student who obtains the highest number of marks at the Final Examination in Pathology.

PRIMARY PRIZE.—A prize in books awarded for the best aggregate standing in the subjects of the first division (Anatomy, Histology, Physiology, Biochemistry).

THE F. SLATER JACKSON PRIZE.—An annual prize of $50.00, founded by Mr. and Mrs. H. F. Jackson in memory of their son, the late F. Slater Jackson, M.D. The prize is awarded on the result of a special examination, written and oral, in Histology and Embryology.

THE ALEXANDER D. STEWART PRIZE.—An annual prize in books, founded by the late W. Grant Stewart (Arts 1885, Med. 1888) in memory of his brother, the late Alexander D. Stewart (Med. 1888), to be awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise his profession.

ROBERT FORSYTH PRIZE.—Under the will of the late Miss Jeanie Forsyth the interest on $1,000 is awarded each year to a student who, upon graduation, has shown particular ability in all branches of surgery.

THE JOHN MUNRO ELDER PRIZE.—An annual prize of $25.00 founded in 1935 by Aubrey H. Elder, K.C., in memory of his father, John M. Elder, C.M.G., M.D., C.M., sometime Assistant Professor of Surgery in the Faculty. The prize is awarded on the result of a special examination in Anatomy.

CAMPBELL HOWARD PRIZE IN CLINICAL MEDICINE.—An annual prize of $50 founded by Mrs. Campbell Howard, in memory of her husband, the late Dr. Campbell P. Howard, Professor of Medicine at McGill University. The prize is awarded to the student who shows the most consistent excellence in his written case reports in the subject of Clinical Medicine.

CHESTER MACNAGHTEN PRIZE (see page 185).

SCHOLARSHIPS

DR. MAUDE E. SEYMOUR ABBOTT SCHOLARSHIPS.—Established in 1938 by an anonymous donation of $10,000 in honour of the late Maude E. Seymour Abbott, B.A., M.D., F.R.C.P., (Canada), LL.D., (McGill), to commemorate her distinguished work in connexion with the history of Canadian medicine, the Sir William Osler Pathological Collection, and her outstanding research in congenital cardiac disease.

The revenue of this fund is used for the provision of a scholarship or scholarships to be awarded by the University to an undergraduate in the Faculty of Medicine or to an undergraduate in the Faculty of Arts and Science who is preparing to enter Medicine. While men and women are both eligible for the awards, women candidates will be given the preference. The amount of the awards will vary according to the needs of the winners.

Applications in writing must reach the Registrar before the 30th June, 1944.

THE WALTER J. HOARE MEMORIAL SCHOLARSHIP.—This scholarship was endowed by the late Dr. Charles W. Hoare, a graduate of McGill University, in memory of his son, Walter J. Hoare, who was killed in the Great War. It is open annually to pupils of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine. If there are no qualified candidates in this preferred class, the scholarship may be awarded to another candidate nominated by the Faculty of Medicine. Applications in writing must reach the Registrar before the 1st April.

THE HORNER BURSARY.—A bursary of $100 presented each year by Frank W. Horner Limited and awarded on the basis of scholarship and need to a student entering the final year of the Faculty of Medicine. Applications on the regular bursary application form must reach the Registrar before the end of the student's third academic year.

LOAN FUND

KELLOGG LOAN FUND.—A limited sum of money has been placed at the disposal of the Faculty of Medicine by the Kellogg Foundation to assist medical students not eligible for other grants. Nearly all the grants made possible by this fund have now been awarded so that applications will be considered only if the circumstances are exceptional. Applicants should consult Dean D. L. Thomson, Chairman of the Scholarships Committee in the Faculty of Medicine.

For awards open to Graduates in Medicine see pages 207 and 211.

G. OPEN TO STUDENTS IN THE FACULTY OF DENTISTRY

For scholarships and bursaries open to undergraduates in all Faculties see page 183.

MEDALS AND PRIZES

THE MONTREAL DENTAL CLUB GOLD MEDAL AND A PRIZE IN BOOKS.—Awarded to the student in the Final Year who stands first in the science and practice of Dentistry. The standing is determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the year.

THE COLLEGE OF DENTAL SURGEONS OF THE PROVINCE OF QUEBEC PRIZE.—A prize of twenty-five dollars awarded to the student, registered in Quebec, obtaining the highest standing in the practical examinations of the Final Year.

THE LIEUT.-GOVERNOR'S SILVER MEDAL AND A PRIZE IN BOOKS.—Awarded to the student in the Final Year who stands second in the class. The standing is determined in a manner similar to that followed in the awarding of the Gold Medal.

THE LIEUT.-GOVERNOR'S BRONZE MEDAL AND A PRIZE IN BOOKS.—Awarded to the student obtaining the highest marks in written and practical subjects in the Third Year examinations.

The following prizes are given by The Mount Royal Dental Society:

FIRST AND SECOND YEAR PRIZES.—A prize in books is awarded to the student obtaining the highest standing at the sessional examinations.

CHESTER MACNAGHTEN PRIZE (see page 185).

LOAN FUND

KELLOGG LOAN FUND.—A sum of money has been placed at the disposal of the Faculty of Dentistry by the Kellogg Foundation to assist dental students who have real financial need and are not eligible for assistance under other bursary and loan schemes. Applicants should consult Dean A. L. Walsh.

H. OPEN TO STUDENTS IN THE FACULTY OF LAW

For scholarships and bursaries open to undergraduates in all Faculties see page 183.

SCHOLARSHIPS AND PRIZES

THE "THOMAS ALEXANDER ROWAT SCHOLARSHIP".—Founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. The value of the scholarship is approximately $75. It is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon or Celtic origin. The next award of this scholarship will be in the session 1943-44.

THE "CHARLES ALBERT NUTTING PRIZE".—Founded in 1930 by Miss Adelaide Nutting, M.A., R.N., in memory of her brother, Charles Albert Nutting, K.C., B.C.L., who graduated from this Faculty in 1872. The value of the prize is the income from a capital sum of $1,000, and is approximately $40. It is awarded to the student in the first or second year submitting the best essay on a topic related to legal history, the topic to be fixed in advance by the Faculty.

THE MONTREAL BAR ASSOCIATION PRIZE.—The Montreal Bar Association offers a prize of $50 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association offers a prize of $15 to the student who obtains the best marks in Civil Procedure in the Final Year.

THE "ALEXANDER MORRIS EXHIBITION".—This exhibition of the value of $50, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

THE ADOLPHE MAILHIOT MEMORIAL PRIZE.—This prize established by Mr. and Mrs. J. N. Mailhiot of Victoriaville, P.Q., in 1927, consists of a prize of law books to be given annually to a student selected by the Faculty, usually, but not necessarily, in the graduating class.

CHESTER MACNAGHTEN PRIZE (see page 185).

MEDALS

THE "ELIZABETH TORRANCE GOLD MEDAL".—Founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

No medals, prizes or scholarships will be awarded, if, in the opinion of the Faculty, there is no candidate of sufficient merit.

For awards open to Graduate Students see pages 207 and 212.

I. OPEN TO STUDENTS IN THE FACULTY OF MUSIC

THE SIR WILLIAM PETERSON MEMORIAL SCHOLARSHIPS.—Established in 1921 by the University and by friends, graduates and pupils of the Faculty of Music. The interest upon the original endowment of $6,055 is used to support two scholarships in Music as a memorial to the late Sir William Peterson.

For further details consult the Secretary of the Faculty.

THE SIR WILLIAM MACDONALD MEMORIAL SCHOLARSHIPS.—Established in 1922 by the University. The interest upon the original endowment of $6,000 is used to support scholarships in Music as a memorial to the late Sir William Macdonald.

For further details consult the Secretary of the Faculty.

ELLEN BALLON PIANO SCHOLARSHIP.—Founded in 1928 by a gift of $1,500 from Miss Ellen Ballon, a graduate of the Conservatorium. The principal has been increased by a further gift of $1,500.00 from Miss Ballon. In making this award the Faculty takes into account the need as well as the ability of candidates.

For further details consult the Secretary of the Faculty.

UNIVERSITY BURSARIES.—Full-time students studying for the Licentiate in Music or for the Bachelor of Music degree are eligible for University Bursaries. For details see page 183.

J. OPEN TO STUDENTS IN MACDONALD COLLEGE

OPEN TO STUDENTS IN AGRICULTURE AND HOUSEHOLD SCIENCE

FACULTY SCHOLARSHIPS AND BURSARIES.—The Faculty of Agriculture has an annual fund of $500 for scholarships and bursaries for degree students. For further particulars apply to the Registrar, Macdonald College.

OPEN TO STUDENTS IN AGRICULTURE

I.O.D.E. SCHOLARSHIP.—A scholarship of $200 ($100 for 2 years) is offered by the Provincial Chapter of the Imperial Order Daughters of the Empire to the British student taking the highest marks in the final examinations of the Second Year. Applications are to be sent to the Educational Secretary, I.O.D.E., The Provincial Chapter of Quebec, Mount Royal Hotel, Montreal.

OPEN TO STUDENTS IN THE SCHOOL OF HOUSEHOLD SCIENCE

THE FREDERICA CAMPBELL MACFARLANE SCHOLARSHIP.—A Scholarship has been donated by the Quebec Women's Institutes in memory of the late Frederica Campbell Macfarlane, graduate in Institution Administration, 1912, Superintendent of Quebec Women's Institutes from 1913 to 1919. This scholarship is of the value of $50.00, is open only to students from a rural district of the Province of Quebec, and is awarded to the student in any of the first three years of the Home Economics course who obtains the highest percentage of marks possible in the final examination.

BURSARY IN THE SCHOOL FOR TEACHERS

I.O.D.E. BURSARY.—The Municipal Chapter I.O.D.E. offers a bursary of $350, tenable in the School for Teachers, Macdonald College. The award is made by a committee of the Municipal Chapter on the basis of Scholarship and need. Applications are to be sent to the Educational Secretary, I.O.D.E., The Municipal Chapter of Montreal, Mount Royal Hotel, Montreal.

CHRISTIE-STORER SCHOLARSHIP (See page 181).

K. OPEN TO STUDENTS IN THE FRENCH SUMMER SCHOOL

FRENCH SUMMER SCHOOL SCHOLARSHIPS.—A number of Resident Scholarships are offered to teachers and to students of colleges and universities who are qualified to enter the Advanced Section C. (See French Summer School Announcement.)

IV. GRADUATE FELLOWSHIPS, SCHOLARSHIPS AND MEDALS

For scholarships and bursaries open to students in all Faculties see page 183.

DEMONSTRATORSHIPS AND INSTRUCTORSHIPS.—In several Departments graduate students are eligible for demonstratorships and instructorships. Information concerning these may be obtained from the Chairman of the Department concerned.

A. FELLOWSHIPS AND SCHOLARSHIPS OPEN TO McGILL GRADUATES AND TO GRADUATE STUDENTS REGISTERED IN THE UNIVERSITY

OPEN TO GRADUATES IN ALL FACULTIES

THE McGILL DELTA UPSILON MEMORIAL SCHOLARSHIP.—Founded by the McGill Chapter of the Delta Upsilon Fraternity in memory of the members of that Chapter who gave their lives in the Great War. This scholarship is open to graduates of the University in all faculties. The Selection Committee will consider:—(*a*) the general scholarship of the candidate; (*b*) his need of financial assistance for further study; (*c*) the general usefulness to the community of the special branch of study he proposes to follow; (*d*) the likelihood that the candidate will reflect credit on the University. The present value of the scholarship is about $700.

This scholarship will not again be awarded until after the present war.

BRITISH COUNCIL SCHOLARSHIPS.—The British Council offers four scholarships each year to women graduates of the Dominion Universities. These scholarships are tenable in Great Britain and enable specially qualified women to study wartime conditions in their particular field, e.g. in Education, Economics, Public Health, Social Service or Medicine.

The value of the scholarships is £300 together with rail and steamer fares to England and back.

Candidates must be at least 23 years old on the 1st March and women with some practical experience in their chosen sphere are preferred. Applications from McGill graduates should be made through the Registrar and must reach him not later than the 16th February 1944.

Further particulars and application forms may be obtained in the Registrar's Office.

PRIZES

CHESTER MACNAGHTEN PRIZE (see page 185).

OPEN TO GRADUATES IN ARTS AND SCIENCE

†THE MOYSE TRAVELLING SCHOLARSHIPS.—Two scholarships of the value of $1,250 each, tenable for one year, founded by the late Right Honourable Lord Atholstan, to commemorate the "splendid services of Dr. Charles E. Moyse, for forty-two years Professor of English, during sixteen of which he was Dean of the Faculty of Arts and Vice-Principal of the University."

These scholarships are awarded by the Faculty of Arts and Science, one for distinction in literary subjects, and the other for distinction in scientific subjects. If a deserving applicant in one of these divisions is not forthcoming, both scholarships may be awarded to applicants who belong to the other. The holder must devote the period of the tenure of the scholarship to advanced study, preferably in a British or European university, but not to the exclusion of other universities.

These scholarships will not be awarded again until after the present war.

THE ALLEN OLIVER FELLOWSHIP.—This fellowship has been established by Mrs. Frank Oliver, of Edmonton, Alta., in "proud and loving memory of her son, the late Allen Oliver, M.C., B.A.,* Lieutenant, 26th Battery, C.F.A., who was killed in action at the Somme on November 18th, 1916." The fellowship is awarded annually to the student who stands highest in first class honours in the Department of Economics and Political Science at the final B.A. examination, and the holder is required to pursue his studies in Economics and Political Science at McGill University or elsewhere. The present value of the scholarship is about $400.

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†Not to be awarded until further notice.

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*Lieut. Oliver was an honour graduate in 1915 in the Department of Economics and Political Science.

†The Guy Drummond Memorial Scholarship.—This scholarship, endowed by the late Guy M. Drummond, and tenable for one year, is awarded annually to a graduating student in the Department of Economics and Political Science. The value of the scholarship is the income derived from a capital sum of $45,190 to cover a year of study divided between Paris and McGill and leading to the M.A., or, in special circumstances, a whole academic year in Paris and then a year studying for the M.A. at McGill. The holder may attend the Graduate Faculty of McGill University for one year before or after his study in Paris, or may go to France in the summer following his appointment, attend the Ecole Libre from its autumn opening until the New Year, and then return to resident work at McGill, being eligible for the M.A. degree in May of that year.

The award is made by the University Scholarships Committee upon the recommendation of the Department of Economics and Political Science and the Department of French.

Alexander Mackenzie Fellowship in Political Science.—This Fellowship, of the annual value of $600 is tenable by a graduate of any accredited university. Such tenure is conditional upon the acceptance by the Department of Economics and Political Science of the applicant as being entitled to admission to the Faculty of Graduate Studies and Research in the field of Political Science. A certain amount of tutorial and teaching work will be required of the holder of the fellowship.

Under certain conditions, which may be ascertained in consultation with the Department of Economics and Political Science, this fellowship may be held for a second or third year.

Each candidate should send (i) a letter of application, (ii) a certified copy of his academic record, (iii) not more than three testimonials. These should reach the Registrar, McGill University, Montreal, before the 30th of April. There are no application forms.

The Philip Carpenter Fellowship founded in 1892 by a donation of $7,000 from Mrs. Philip P. Carpenter for "a post-graduate teaching fellowship or scholarship in Natural Science or some branch thereof in the Faculty of Arts of McGill College."

The LeRoy Memorial Fellowship in Geology.—(See page 210).

The Dr. T. Sterry Hunt Research Scholarship in Chemistry.—(See page 210).

Adams Scholarship in Geology.—(See page 210).

†Not to be awarded until further notice.

BURSARIES

Logan Bursaries in Geology.—(See page 193).

OPEN TO GRADUATES IN ENGINEERING

The LeRoy Memorial Fellowship in Geology.—This fellowship of $500, established by some friends of Captain O. E. LeRoy (Arts, 1895), who was killed in the Battle of Passchendaele, in October, 1917, is awarded annually to a student who desires to proceed with post-graduate studies in Geology at McGill University. The recipient may be called upon to assist in the teaching work of the Department. The award is made by the Chairman of the Department of Geological Sciences in consultation with the Principal.

The Dr. T. Sterry Hunt Research Scholarship in Chemistry.—This Scholarship of the value of $600 is open to graduates in Chemistry and Chemical Engineering who have completed the course for the degree of M.Sc., M.Eng. or Ph.D. and have shown high capacity for research. The holder may be required to assist in the Department as a demonstrator.

Research Fellowships.—Two research and teaching fellowships have been established in the Department of Mining and Metallurgical Engineering—one of $600 endowed in memory of the late Sir William Dawson, one of $550 endowed by the late Dr. James Douglas. These fellowships are awarded annually if suitable candidates offer.

Dr. B. J. Harrington Bursary in Mining Engineering.—This bursary of approximately $150 a year, supported by graduates in Mining Engineering in memory of the late Professor B. J. Harrington, is awarded annually if a suitable candidate offers.

The John Bonsall Porter Scholarship.—This scholarship, founded by Dr. W. W. Colpitts (B.Sc., 1899), is open to graduate students proceeding to the degree of M.Eng. in Civil, Mechanical, or Electrical Engineering, preference being given to students in Civil Engineering. The value of the scholarship for 1943-44 will be $200. Applications should be in the hands of the Dean of the Faculty of Engineering not later than July 30th, 1943. In the case of graduates of other universities these must be accompanied by certified statements of academic standing and letters of recommendation.

Adams Scholarship.—A scholarship of $300, presented by the late Professor F. D. Adams, will again be available in 1943-44 for a graduate student in the Department of Geological Sciences.

Loan Fund

Waddell Loan Fund.—Loans from this Fund, which was founded by J. B. Waddell, Esq., may be made to graduate as well as undergraduate students in any Department of Engineering. Application should be made to the Dean of the Faculty of Engineering.

OPEN TO GRADUATES IN ARCHITECTURE

†The Hugh McLennan Memorial Scholarship.—Established by the Hon. John Stewart McLennan and Dr. Francis and Miss Isabella McLennan in memory of Hugh McLennan, son of the Hon. John Stewart McLennan, killed at the Battle of Ypres in 1915. The amount of this scholarship is $1,000. It will be awarded to the student graduating in Architecture who during his course has shown the greatest capacity in the solution of problems and who gives promise of creative ability.

OPEN TO GRADUATES IN MEDICINE

FELLOWSHIPS

The A. A. Browne Memorial Fund.—The sum of $10,000 has been received by the Faculty of Medicine of McGill University from the committee of the A. A. Browne Memorial Fund. This fund is used either for a fellowship to be known as the "A. A. Browne Memorial Fellowship", or for a grant to a department to provide technical assistance, equipment, and supplies for medical research. The fellowship is open to graduates of any recognized Medical School and is for the advancement of medical science, special preference being given to the subjects of obstetrics and gynæcology.

The James Douglas Research Fellowship.—The sum of $25,000 was donated by the late Dr. James Douglas, the proceeds to be devoted to co-ordinated research in the laboratories of pathology in or associated with the University.

The John McCrae Fellowship.—A fellowship of approximately $800, founded in 1918 as a yearly donation by Mr. H. J. Fuller, of New York, in memory of the late Lt.-Col. John McCrae, for the purpose of scientific research in Experimental Surgery. Established as a permanent fellowship in 1920 by Mr. Fuller and the Canadian Fairbanks-Morse Company.

The Clara Law Fellowship, founded in 1927 by Mrs. J. R. Fraser for the furtherance of research in the laboratory of the Department of Obstetrics and Gynæcology, is of the value of $1,200 per annum.

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†Not to be awarded until further notice.

THE DR. J. FRANCIS WILLIAMS FELLOWSHIP IN MEDICINE AND CLINICAL MEDICINE of $500, founded by the late J. Francis Williams, M.D., to be awarded on the result of a special examination open to students of the final year who have had a high general scholastic standing and who are approved by the Chairman of the Department of Medicine.

THE DR. J. H. B. ALLAN SCHOLARSHIP of $240, founded by a bequest of Mrs. Agnes W. Allan, mother of Dr. J. H. B. Allan.

THE JAMES COOPER ENDOWMENT "for the Study and Teaching of Internal Medicine" was established by a bequest from the late James Cooper. The income from this fund will be used for fellowships or for grants to departments to provide technical assistance, equipment and supplies for medical research.

THE BLANCHE HUTCHINSON RESEARCH FUND was established by a bequest from the late Mrs. Frank L. Hutchinson. The income from this fund will be used for fellowships or for grants to departments to provide technical assistance, equipment, and supplies for medical research.

†THE OSLER MEMORIAL SCHOLARSHIP.—This scholarship is normally awarded by the Canadian Medical Association every third year to a candidate nominated by the Faculty of Medicine "in order that such candidate may pursue studies to advance the knowledge of medicine and to improve the teaching of clinical medicine". Candidates must be graduates of not more than ten years' standing and, other things being equal, preference will be given to a graduate of McGill University.

CASGRAIN AND CHARBONNEAU AWARD.—An annual award of $500 given by the firm of Casgrain and Charbonneau for original work leading to improvement in the prevention or treatment of disease. Candidates must be graduates of McGill University or students in the Faculty of Graduate Studies and Research of McGill University. Applications should be made in writing to the Dean of the Faculty of Medicine before the 1st April.

THE H. W. MOLSON FELLOWSHIP IN CANCER.—This research fellowship, endowed by Mr. H. W. Molson, has an annual value of approximately $1,000. The work will be carried on in the Royal Victoria Hospital under the direction of the Strathcona Professor of Pathology and the Professor of Obstetrics and Gynæcology. Applications should be made to the Dean of the Faculty of Medicine.

OPEN TO GRADUATES IN LAW

†THE MACDONALD TRAVELLING SCHOLARSHIP.—This Scholarship was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French

†Not to be awarded until further notice.

language." The value of the scholarship is approximately $900. The scholar elected is required to pursue a year's study in the Law Faculty of a French University approved in each case, by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class, not being a notarial student, who has obtained first or second class honours in the Final Examination and who would be unable without such financial help to spend a year in France. The Faculty interprets the will of the late Sir William Macdonald as intending that the Scholarship be awarded only to men students preparing for practice as advocates in the Province of Quebec.

THE EDWIN BOTSFORD BUSTEED SCHOLARSHIP.—Founded by the will of the late Mrs. Edwin Botsford Busteed and awarded to a student, chosen by the Faculty, in the graduating year who desires to carry out research after graduation on some subject connected with the law of Quebec and approved by the Faculty. The value of the scholarship is the income from a capital sum of $6,000, or approximately $240, which will be paid to the scholar when his thesis has been accepted by the Faculty.

OPEN TO GRADUATES IN AGRICULTURE

MACDONALD COLLEGE AGRICULTURAL ALUMNI ASSOCIATION GRADUATE SCHOLARSHIP.—In memory of graduates and undergraduates of the Faculty of Agriculture who died in service during the Great War, 1914-1918; created, in connection with the Centennial Campaign, 1920, through subscriptions of graduates, undergraduates, members of the staff and other friends, of a present value of $200 and available to any graduate in Agriculture of Macdonald College (McGill University) for graduate work in Agriculture at any college or university of recognized standing. The holder is chosen by a committee appointed by the executive of the Macdonald College Agricultural Alumni Association, and applications should be addressed to Mr. Emile A. Lods, General Secretary, Agricultural Alumni Association, Macdonald College, P.Q.

B. FELLOWSHIPS AND SCHOLARSHIPS OPEN TO GRADUATES OF McGILL AND OF OTHER UNIVERSITIES

†SCIENCE SCHOLARSHIPS GRANTED BY HER MAJESTY'S COMMISSIONERS FOR THE EXHIBITION OF 1851.—These scholarships, of at least £275 sterling a year, are tenable for two, or, in rare instances, three years. They are limited, "to those branches of science, the extension of which is especially important to our national industries." The holder is required to devote himself to research, the particular nature of which must be approved by the Commissioners.

†Not to be awarded until further notice.

Three of these Scholarships which are tenable at any institution approved by the Commission are allotted to Canada each year, the scholars being chosen by the Commission from the nominees of certain Universities, among which McGill is included.

Candidates should apply, not later than April 1st, through the Chairman of their Department. Details concerning the regulations may be obtained from the Registrar's Office.

Royal Society of Canada Fellowships.—Ten annual research fellowships, endowed by the Carnegie Corporation, will probably be awarded in 1944. They are of the value of $1,500, are open to men and women on equal terms, and are tenable normally outside Canada only. Candidates should have at least a Master's degree and their age should not exceed 32. In 1943 the last day for receiving applications was February 1st. Further particulars may be obtained from the Registrar's Office.

Alexander Mackenzie Fellowship in Political Science.—(See page 209).

The Dr. J. H. B. Allan Scholarship. (See page 212).

The A. A. Browne Memorial Fund. (See page 211).

The Casgrain and Charbonneau Award. (See page 212).

The James Cooper Endowment. (See page 212).

The Blanche Hutchinson Research Fund. (See page 212).

The John McCrae Fellowship. (See page 211).

The Osler Memorial Scholarship. (See page 212).

†The Rhodes Scholarships.—These scholarships of £400 a year are tenable for two years at the University of Oxford. A third year may be granted under certain conditions.

Candidates must be British subjects with at least five years domicile in Canada and be between the ages of nineteen and twenty-five.

Two scholars are chosen annually from the Province of Quebec, and men students in any Faculty may apply.

Applications must be in the hands of the Secretary of the Provincial Selection Committee not later than November 10th.

Further details of tenure, eligibility and qualifications, and application forms may be obtained from the Registrar's Office, or the Provincial Secretary, Mr. Henri G. Lafleur, 507 Place d'Armes.

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†Not to be awarded until further notice.

NATIONAL RESEARCH COUNCIL SCHOLARSHIPS.—Bursaries, Studentships, Fellowships, and Scholarships, which in 1943 had the values of $250 (plus tuition fees), $650, $750, and $1,000 respectively, will probably be awarded in 1944 by the National Research Council to highly qualified graduates in Science. They are open on equal terms to men and women, whose age should not exceed 30. In 1943 the last day for receiving applications was March 1st. Further particulars may be obtained from the Registrar's Office.

†POST GRADUATE SCHOLARSHIPS GRANTED BY THE IMPERIAL ORDER DAUGHTERS OF THE EMPIRE.—Nine are offered annually—one for each province. They are of the value of $1,400 and have been founded "to enable students to carry on studies at any university in the United Kingdom, in British and Imperial History, the Economics and Government of the Empire and Dominion, or any subject vital to the interests of the Empire."

Full details may be obtained from the Provincial Educational Secretary of the Order in any Canadian Province. In Quebec the address is Room 1111, Mount Royal Hotel, Montreal.

UNIVERSITY WOMEN'S FEDERATION TRAVELLING SCHOLARSHIP.—The Scholarship of the Canadian Federation of University Women, of the value of $1,250, available for study and research work, is open to any woman holding a degree from a Canadian University. In general, preference is given to those candidates who have completed at least one or two years of graduate study and have a definite research in view. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

The choice of the University at which the successful candidate is to pursue her study or research work is left to the Committee of Selection in consultation with the candidate.

Full information can be obtained from the Convenor of the Scholarship Committee, Miss Jean Murray, University of Saskatchewan, Saskatoon, Sask.

Applications and testimonials must be received before February 1st.

UNIVERSITY WOMEN'S FEDERATION JUNIOR SCHOLARSHIP.—This scholarship of the value of $700 is open to any woman graduate of a Canadian University who is not more than twenty-five years of age on February 1st, 1944. The award will be based on evidence of character, intellectual achievement and promise. The place of study must be approved by the Scholarship Committee. Preference will be given to students who have studied in only one university and who desire to continue their studies in another.

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†Not to be awarded until further notice.

Further particulars of this award may be obtained at the Registrar's Office.

Application forms may be obtained from the Convenor of the Scholarship Committee, Miss Jean Murray, University of Saskatchewan, Saskatoon, Sask.

PROVINCE OF QUEBEC POST-GRADUATE SCHOLARSHIPS.—A number of scholarships are granted annually by the Government of the Province to graduates who wish to complete their studies outside Canada. These scholarships are each of the value of $1,200 per annum. They are awarded in the first instance for one year, but their tenure may be extended to three years if the work of the holder is satisfactory. Candidates must be bona-fide residents of the Province of Quebec and preference is given to those who intend to carry on teaching or research work in Canadian Universities or schools on their return to Canada. Each letter of application should state the candidate's age next birthday, his subject of study and the institution he plans to attend, and should be accompanied by two testimonials from members of his faculty and two additional references from responsible citizens. Applications should be addressed to the Registrar, and submitted not later than the 1st of April. The awards are generally announced by the Provincial Government at the end of July each year.

C-I-L- FELLOWSHIPS.—Two post-graduate fellowships in Chemistry each of the value of $750 and tenable in the Department of Chemistry were established in 1941 by the Canadian Industries Limited. These fellowships are known as the C-I-L- Fellowships and are open to any British subject who is a graduate of a recognized University. Normally the fellowships will be tenable for one year only, but in special cases they may be renewed for a second year. For further particulars consult the Registrar's Office.

INCO SCHOLARSHIPS.—Three scholarships of $500 each were established in 1941 by the International Nickel Company of Canada. They are tenable by a student working for his master's degree in Chemical Engineering, Mining, Metallurgy, or Geology. One of the three awards is tenable at McGill University. For further particulars consult the Registrar's Office.

OTHER SCHOLARSHIPS

Notices of other scholarships and fellowships are received by the University from time to time. Students may consult these in the Registrar's Office.

V. SCHOLARSHIPS, PRIZES AND MEDALS OPEN TO STUDENTS REGISTERED IN THE VARIOUS SCHOOLS OF THE UNIVERSITY

OPEN TO STUDENTS IN THE LIBRARY SCHOOL

The Ethelwyn M. Crossley Scholarship Fund is available for women students. Details may be obtained on application to the Secretary of the School.

OPEN TO STUDENTS IN THE SCHOOL OF PHYSICAL EDUCATION

PRIZES AND MEDALS

Gold Medal.—The School offers a gold medal to the student who attains the highest general proficiency throughout the course.

Class of 1925 Shield.—A Shield presented by the Class of 1925, is awarded to the student attaining the highest standing in practice teaching throughout the course and is held for one year by the student.

Lieutenant-Governor's Silver Medal.—This medal is awarded to the graduate student who attains the highest general proficiency throughout the course.

Class of 1916 Cup.—A Cup, presented by the Class of 1916, is held for one year by the senior student who attains the highest standing in practical work.

Lieutenant-Governor's Bronze Medal.—This medal is awarded to the junior student who attains the highest general proficiency in the sessional examinations.

(N.B.—The above conditions may be amended and prizes may be withheld at the discretion of the Committee.)

OPEN TO STUDENTS ENTERING THE SCHOOL FOR GRADUATE NURSES

SCHOLARSHIPS

Applicants for scholarships must meet the entrance requirements of the University (Junior Matriculation standing or its equivalent). Preference will be given to applicants with experience in the nursing field.

1. Alexandra Hospital.

The Board of Governors offers a scholarship of $100.00 in addition to maintenance at the hospital during a year's study at the School for Graduate Nurses. Members of the hospital nursing staff are eligible.

2. Association of Registered Nurses of the Province of Quebec.

A scholarship of $350.00 to a member of the Association of Registered Nurses of the Province of Quebec whose qualifications are acceptable to McGill University for any course selected in the School for Graduate Nurses.

3. Children's Memorial Hospital School of Nursing.

The Board of Governors offers a scholarship in the form of maintenance at the hospital during one year's study at the School for Graduate Nurses.

4. Montreal General Hospital School of Nursing.

1. The Mildred Hope Forbes Memorial Scholarship, established by Mrs. Norman Wilson in memory of the late Mildred Hope Forbes, is offered to a graduate of the Montreal General Hospital School for Nurses.

2. The Alumnae Association of the Montreal General Hospital School for Nurses offers a scholarship. Only members of the Alumnae Association are eligible.

5. Royal Victoria Hospital School of Nursing.

1. An annual scholarship offered by the Board of Management for a year's study at the School for Graduate Nurses.

2. The Alumnae Association offers the Mabel F. Hersey Scholarship for postgraduate work.

3. An annual scholarship is awarded from the Dr. Garrow Fund for postgraduate work.

4. The Emma Thomas Scholarship is offered for post graduate study.

6. Shriners' Hospital for Crippled Children.

A scholarship in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses offered by the Board of Governors of the Montreal Unit to Registered graduate nurses who have affiliated as student nurses at the Shriners' Hospital.

7. Victorian Order of Nurses for Canada.

The Victorian Order of Nurses for Canada offers a limited number of scholarships of $400.00 each to nurses taking a year's postgraduate course in Public Health Nursing. Candidates who have been on the staff of the Order for two months or more will be given preference.

8. The Homoeopathic Hospital of Montreal.

The Alumnae Association of the Homoeopathic Hospital School for Nurses offers a scholarship of $200.00 for a year's study at the School for Graduate Nurses. Only members of the Alumnae Association are eligible.

Kellogg Loan Fund.—A sum of money will probably be placed at the disposal of the School for Graduate Nurses again this year to assist graduate nurses who have real financial need and are not eligible for assistance under other bursary and loan schemes. Applicants should consult the Director of the School for Graduate Nurses.

VI. MEDALS AND PRIZES IN THE DEPARTMENT OF PHYSICAL EDUCATION

I. For Men.

The Wicksteed silver and bronze medals for physical education (the gift of the late Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter. The award of these medals is made by judges appointed by the University Committee on Physical Education. Every competitor for the silver medal is required to lodge with the judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean of the Faculty to which he belongs, and the medal is not awarded to any student who fails in his examination for the degree.

Further information concerning the regulations and the work of the Department may be obtained from the Director, Dr. A. S. Lamb, Sir Arthur Currie Memorial Gymnasium-Armoury.

II. For Women

Strathcona Prizes.—The Department of Physical Education in conjunction with the M.W.S.A.A., offers a prize for competition in each of the four years of the Faculty of Arts and Science. Details of the competition are announced at the beginning of each session.

INDEX OF AWARDS

	PAGE
Abbott (Dr. Maude E. S.) Scholarships	203
Adams (F. D.) Scholarship	210
Alexander, Charles, Scholarship	187
Alexandra Hospital Scholarship	218
Allan (Dr. J. H. B.) Scholarship	212
Allan (Margaret Jane) Scholarship	187
Alliance Française Medals	190
Allied Nations Bursaries	185
Alumnae Society Bursaries and Loans	194
American Society of Metals Prize	198
Anglin Bursary	199
Anglin-Norcross Prizes	196
Arts and Science Scholarships	187, 192
Association of Registered Nurses Scholarship	218
Ballon (Ellen) Piano Scholarships	206
Barclay Scholarship	188
Baylis Scholarship	199
Beatty (Sir Edward) Medal	195
Beatty (Sir Edward) Scholarships	178
Bedford Graduates' Society's Scholarship	180
B'nai Brith Bursaries	183
B'nai Brith Women's Auxiliary No. 257 Bursary	194
Botany, Prizes in	192
British Association Prizes	196
British Association Medal	200
British Council Scholarships	207
Browne (A. A.) Fellowship	211
Bruce (Robert) Bursary	179
Bruce (Robert) Scholarships	179, 189
Bruck (Isaac) Scholarship	194
Bursaries	175
Busteed (Edwin Botsford) Scholarship	213
Canadian Institute of Mining and Metallurgy Loan Fund	201
Canadian Institute of Mining and Metallurgy Medal	200
Canadian Institute of Mining and Metallurgy Prizes	197
Canadian Pacific Railway Company's Scholarships	180
Carpenter (Philip) Fellowship	209
Casgrain and Charbonneau Award	212
Chancellor's Medal	195
Chapman (Henry) Gold Medal	190
Chapman (Henry) Prize	191
Chemical Industry Society's Prize	198
Cherry Prize	191
Children's Memorial Hospital Scholarship	218
Christie-Storer Chapter Scholarship	181
C-I-L Fellowships	216
Class of 1916 Cup	217

Index of Awards

	Page
Class of 1899 Fund	201
Class of 1925 Shield	217
Commercial Society Loan Fund	195
Cooper (James) Endowment	212
Corporation of Professional Engineers, Bursary of	200
Crossley (Ethelwyn M.) Scholarship Fund	217
Daly, Marion McCall, Prize	192
Dawson (Sir William) Scholarship	188, 198
Dawson (Sir William) Fellowship	210
Delta Phi Epsilon Sorority Bursary	189
Delta Upsilon Scholarship	207
Dental Surgeons of the Province of Quebec (College of) Prize	204
Demonstratorships	207
Dentistry: First and Second Year Prizes	204
Dominion Government Loans	185
Dominion-Provincial Bursaries	183
Douglas (Dr. James) Bursaries	199
Douglas (Dr. James) Fellowship in Mining Engineering	210
Douglas (Dr. James) Fellowship in Pathology	211
Drake (Joseph Morley) Prize	202
Drummond (Guy) Memorial Scholarship	209
Elder (John Munro) Prize	202
Engineering Institute of Canada Prizes	197
Evans (Nevil Norton) Scholarship	199
Exhibition of 1851 Scholarships	213
Fairley (Grace) Trafalgar Scholarship	181
Fantham Memorial Prize in Zoology	191
Farrand (Narcissa) Scholarship	181
Forbes (Mildred Hope) Memorial Scholarship	218
Forsyth (Dora) Prize	191
Forsyth (Robert) Prizes	198, 202
Fourth Year Scholarships in Arts and Science	189
French Summer School Scholarships	207
Frost (George Henry) Loan Fund	201
Garrow (Dr.) Scholarship	218
Governor-General's Gold Medal	190
Governor-General's Silver Medal	190
Harrington (Dr. B. J.) Bursary	210
Hersey (Mabel F.) Scholarship	218
Hersey (Dr. Milton L.) Prize	197
Hils (Joseph) Prize	202
Historical Society's Prize	192
Hoare (Walter J.) Scholarship	203
Hodgson (Madelene) Prize	192
Hodgson (Sidney J.) Scholarships	180
Holmes Gold Medal	201

INDEX OF AWARDS

	PAGE
Homoeopathic Hospital of Montreal Scholarship	219
Horner Bursary	203
Houston Scholarship	188
Howard (Campbell) Prize	203
Hunt (Dr. T. Sterry) Scholarship	210
Hurlbatt (Ethel) Scholarship	193
Hutchinson (Blanche) Research Fund	212
Inco Scholarships	216
I.O.D.E. Bursary in Agriculture	206
I.O.D.E. Bursary in the School for Teachers	206
I.O.D.E. Postgraduate Scholarships	215
Institute of Radio Engineers Prize	198
Instructorships	207
Jackson (Slater) Prize	202
Jacobs (Joseph H.) Prize	195
Jenkins Brothers' Scholarship	199
Jewish Women (Local Council of) Scholarship	194
Johnson (Phelps) Prize	197
Jones (Hon. Robert) Bursary	179, 198
Joseph (Ethel Walkem) Prize	192
Kellogg Loan Fund	203, 204, 219
Ker, Frederick Southam, Bursary	183
Khaki University and Y.M.C.A. Memorial Scholarship Fund	184
Law (Clara) Fellowship	211
Leonard Foundation Scholarships	184
LeRoy Memorial Fellowship	210
Lieutenant-Governor's Medals	190, 195, 200, 202, 204, 217
Loan Funds	176, 186
Loans	176
Logan Bursaries	193
Logan Gold Medal	190
Lyman (Hannah Willard) Scholarship	189
McCall (James Darling) Scholarship	189
McCrae (John) Fellowship	211
Macdonald College Agricultural Alumni Association Scholarship	213
Macdonald (Sir William) Entrance Scholarships	178
Macdonald (Sir William) Scholarships in Arts and Science	187
Macdonald (Sir William) Memorial Scholarships in Music	205
Macdonald (Sir William) Travelling Scholarship in Law	212
Macfarlane (Frederica Campbell) Scholarship	206
McGill (Women Associates of) Bursary	184
Macintosh (Annie) Prize	191
MacKay (H. M.) Memorial Scholarship	199
Mackenzie (Alexander) Fellowship	209
Mackenzie (Alexander) Scholarships	190, 190
McLennan (Hugh) Scholarship	211

Index of Awards

	Page
Macnaghten (Chester) Prize	185
MacRae (Isabella) Scholarship	181
Mailhiot (Adolphe) Memorial Prize	205
Marceau (Ernest) Prize	197
Mills (Major Hiram) Gold Medal	190
Mills (Major Hiram) Scholarship	188
Mining and Metallurgical Research Fellowships	210
Molson (Anne) Gold Medal	190
Molson (Anne) Prize	192
Molson (H. W.) Fellowship in Cancer	212
Montreal Bar Association Prize	205
Montreal Dental Club Gold Medal	204
Montreal General Hospital Scholarships	218
Montreal Light, Heat & Power Consolidated Prizes	197
Morris (Alexander) Exhibition	205
Moyse Travelling Scholarships	208
National Breweries Limited Prize, The	198
National Council of Jewish Women of Montreal Bursaries	184
National Research Council Scholarships	215
Nutting (Charles Albert) Prize	205
Oliver (Allen) Fellowship	208
Oliver (Allen) Gold Medal	190
Ontario Graduates' Society Loan Fund	186
Ornithology Prize	192
Osler Memorial Scholarship	212
Ottawa Valley Graduates' Society Bursaries	179
Penhallow Prize	191
Peterson Memorial Prize	191
Peterson Memorial Scholarship in Classics	188
Peterson Memorial Scholarships in Music	205
Pettes, Mrs. N. (Narcissa Farrand) Scholarship	181
Physical Education (School of) Gold Medal	217
Porter (Dr. J. B.) Scholarship	210
Post-Discharge Re-Establishment Order	185
Presbyterian College Scholarships	182
Primary Prize in Medicine	202
Prince of Wales Gold Medal	190
Quebec (Province of) Commerce Essay Prizes	195
Quebec (Province of) Mining Bursaries	200
Quebec (Province of) Post-Graduate Scholarships	216
Redpath (Jane) Exhibition	187
Reford Scholarship	188
Registered Nurses' Scholarship	218
Reid, Eliza, Memorial Scholarship	194
Reid, Helen R. Y., Scholarships	193
Research Council Scholarships (National)	215

INDEX OF AWARDS

	PAGE
Rhodes Scholarships	214
Robertson (Louis) Prize	197
Ross (P. S.) Bursary	179
Rowat (Thomas Alexander) Scholarship	204
Royal Architectural Institute of Canada Medal	200
Royal Commissioners for 1851 Scholarships	213
Royal Society of Canada Fellowships	214
Royal Victoria College Entrance Scholarships	193
Royal Victoria College Resident Bursaries	193
Royal Victoria Hospital Scholarships	218
Scott (Barbara) Scholarship	187
Scott Exhibition	196
Second Year Scholarships in Arts and Science	187
Shakspere Gold Medal	190
Sharp (F. W.) Prize in Commerce	194
Shriners' Hospital Scholarship	218
Snyder (Charles William) Scholarship	189
Society of Chemical Industry Prize	198
Stewart (Alexander D.) Prize	202
Stewart (Neil) Prize	185
Strathcona Prizes for Physical Education	219
Sutherland Gold Medal	202
Theological College Scholarships	181
Third Year Scholarships in Arts and Science	188
Tighe (James) Prize	196
Torrance (Elizabeth) Gold Medal	205
Trafalgar (Grace Fairley) Scholarship	181
Turner (P. J.) Prize	197
Undergraduates' Society Prizes in Engineering	197
United Theological College Bursaries	181
University Bursaries	183
University Entrance Scholarships	177
University Scholarships	175, 183
University Loan Fund	176, 186
University Women's Federation Scholarships	215
University Women's Federation Junior Scholarship	215
Vaughan (Susan Cameron) Schclarship	193
Victorian Order of Nurses' Scholarship	218
Waddell Loan Fund	201, 211
Wicksteed Medals for Physical Education	219
Williams (Dr. J. Francis) Fellowship	212
Women Associates of McGill Bursary	185
Wood Gold Medal	201
Workman Studentship	196
Y.M.C.A. Memorial Scholarship Fund	184
Zoology, Prizes in	192

McGILL UNIVERSITY

MONTREAL

McGILL COLLEGE

(FACULTY OF ARTS AND SCIENCE)

1943 - 1944

INDEX

	Page
Administrative Officers	237, 238
Admission Requirements	240, 241, 242
Admission to Upper Years	242
Advanced Courses	252
Advanced Standing	242
Advancement from year to year	246
Advisers	243
Age of Admission	241
Anatomy	263
Ancient History	275
Application Forms	241
Attendance Rules	245
B.A., Courses for General Degree	250, 253
B.A., Courses for Honours Degree	250, 254
B.A., M.D.	244
B.Sc., Courses for General Degree	256, 257
B.Sc., Courses for Honours Degree	256, 259, 260, 261
B.Sc., M.D.	244
Bacteriology	263
Biochemistry	265
Biological Subjects, Honours B.Sc. in	260
Botany	266
Bursaries	248
Changing Courses	243
Chemistry	269
Classes in Examinations	246
Classes of Students	240
Classics	272
Committees	238, 239
Continuation Subjects	249, 258
Courses of Lectures in Arts and Science	263

	Page
Degrees	249
Distinction in General Course	249
Economics	276
Education	278
Engineering Physics	262
English	280
Entrance Requirements	240, 241, 242
Examination Marks	246
Examinations	245, 246
Faculty of Arts and Science	240
Faculties and Schools	320
Fees	247
Final Examinations	246
French	285
Functional Biology, Honours B.Sc. in	261
General Courses for B.A. Degree	250, 253
General Courses for B.Sc. Degree	256, 257
Genetics	288
Geological Sciences	289
German	290
Greek	272
High School Diploma	248, 278
Histology	263
History	293
History, Ancient	275
Honours Courses for B.A.	250, 254
Honours B.Sc. Degree	256, 259
Honours B.Sc. in Biological Subjects	260
Honours B.Sc. in Functional Biology	261
Interim Tests	252
Latin	274
Law	296

	Page
Limited Undergraduates	240
Loan Funds	248
Marks, Pass	246
Mathematics	296
Medals	248
Mid-Sessional Examinations	245
Mineralogy	289
Music, Subject of	299
Partial Students	241
Pass Marks	246
Period of Study for a Degree	240
Philosophy	303
Physics	306
Physics, Engineering	262
Physiology	310
Political Science	276
Prizes	248
Probation	247
Professional Faculties	244
Promotion	246
Psychology	311
Registration	243
Regulations of the Protestant Committee	279
Requirements for Admission to Professional Courses	244
Scholarships	248
Sociology	315
Spanish	316
Standing Committees	238
Supplemental Examinations	246
Training of Teachers	278
Undergraduates	240
Withdrawal from the Faculty	247
Women Students	240
Zoology	317

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R. D. Maclennan
H. Tate
W. D. Woodhead

B.Sc. Section

D. L. Thomson (Chairman)
W. H. Barnes
W. H. Hatcher
D. A. Keys
J. J. O'Neill

A complete list of the teaching staff of the University, including the Faculty of Arts and Science, is printed as a separate announcement which may be obtained from the Registrar's Office.

THE FACULTY OF ARTS AND SCIENCE

General Information.

The undergraduate work of the University in Arts, in Pure Science, and in Commerce, is done in McGill College, usually called the Faculty of Arts and Science. The Dean of McGill College is the Dean of the Faculty of Arts and Science.

The work of the students who are candidates for the degree of Bachelor of Commerce (B.Com.) is supervised by the Director of the School of Commerce which is an integral part of the Faculty.

Women Students.

Women are admitted to the courses and to the degrees of the Faculty on the same terms as men.

Entrance Requirements.

Students may be admitted into the Faculty as full undergraduates after passing either the Junior or the Senior Matriculation Examination or an equivalent examination, in the requisite subjects. A student with incomplete matriculation qualifications is not admitted as an undergraduate.

Period of Study for a Degree.

The bachelor's degree may be obtained only by students who have regularly attended the prescribed courses for at least four years after being admitted into the first year or for at least three years after being admitted into the second year. Students are admitted to advanced standing in the third year only under exceptional circumstances and at least two full years of resident study in the Faculty are ordinarily required before the bachelor's degree can be granted.

Classes of Students in the Faculty.

(1) *Undergraduates:* Students with complete matriculation qualifications taking the regular work of their year towards a degree.

(2) *Limited Undergraduates:* Students with complete matriculation qualifications who have been given permission by the Dean of the Faculty to distribute the four years' work over five or more years (but not more than eight years), on the understanding that the sequence of courses conforms to the regular undergraduate rules and time table.

Limited Undergraduates are not eligible for scholarships, medals, bursaries or prizes of any description and may not read for an Honours Degree.

(3) *Partial Students:* Students not registered as proceeding to a degree who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the Chairmen of the Departments concerned that they have sufficient ability to do the work of the courses they desire to take. A student who has tried and failed to pass the matriculation in a subject is not allowed to register as a partial student in that subject.

In the courses they are taking, partial students must fulfil all the requirements of classroom work and tests prescribed for regular students.

Subject to the above limitations, lectures are open to partial students in both honours and general classes. Should a partial student acquire or subsequently be accorded regular standing by vote of the Faculty, his partial courses may by permission of the Faculty be counted toward a degree. Partial students are not eligible for medals, scholarships, bursaries, or prizes.

AGE OF ADMISSION

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

APPLICATION FOR ADMISSION TO THE FACULTY OF ARTS AND SCIENCE

All applications to enter the Faculty of Arts and Science must be made on forms which may be obtained from the Registrar's office. Completed applications must reach the Registrar before September 10th.

The number of admissions is limited and the College is not bound to accept applicants who have passed the required examinations.

ENTRANCE REQUIREMENTS

For the Session of 1943-44

See General Announcement for details.

1. A student may apply for admission to the First Year of the B.A., B.Sc., or B.Com. courses after passing in the required subjects of the Junior Matriculation Examination or one of the examinations recognized by the University as the equivalent of Junior Matriculation.

2. A student may apply for admission to the Second Year of these courses after passing in the required papers of the Junior and Senior Matriculation Examinations or their recognized equivalents. Only in exceptional circumstances is a student who has not written and passed the

Junior Matriculation Examination or its equivalent admitted by Senior Matriculation. At least a good average second class standing in Senior Matriculation or its equivalent is required for entrance to the Second Year.

A student who has been admitted to the first year and who has failed to advance to the second year is not permitted to obtain advanced standing by Senior Matriculation, but is required to take the regular supplemental examinations of the first year if he desires to proceed in his course.

3. Students who are admitted to the B.A. courses by other than McGill Matriculation or Quebec High School Leaving Examinations may, with the approval of the Dean, be exempted from the necessity of having matriculated in a classical language. A student who applies for admission to second year after having taken the first year at some other college or university may, with the approval of the Dean, be granted exemption from the compulsory Classics requirement in the Matriculation and the first year B.A. course.

Candidates for admission to the second year of the B.A. course may substitute a third foreign language for Mathematics only if they have passed in the Elementary Mathematics of the Junior Matriculation or of some equivalent examination.

The Dean of the Faculty of Arts and Science may, at his discretion, admit a student who has substituted one of the other optional subjects for Mathematics if

(1) the student has already passed the Junior Matriculation, or some equivalent examination, in Elementary Mathematics;

(2) the record of the student shows sufficient promise to justify this concession.

4. Students may be admitted to the second year in the B.A. course with Junior Matriculation German or Greek or Spanish as one of the five subjects required if they have not previously taken that subject for Junior Matriculation.

5. Full details of these examinations are given in the Matriculation Announcement which may be obtained from the Registrar's Office.

ADMISSION TO THE SECOND AND THIRD YEARS OF THE FACULTY

Applications for entrance to the Second and Third Years of the Faculty should be made to the Registrar's Office on the proper forms, and must be accompanied by complete details of previous university work.

REGISTRATION

1943

Monday the 27th of September is Freshman Day and all students entering the Faculty of Arts and Science for the first time are required to attend a meeting to be held in Moyse Hall on that morning at 9 o'clock.

Registration in all years will start on Tuesday the 28th of September and will finish on the following day.

After September 29th all registration is done in the Registrar's Office and a special late registration fee must be paid (see the General Information Pamphlet included in this Accouncement).

No student will be admitted after October 15th except by special permission of the Dean.

Women students of the Faculty, after registration, are required to enter in the roll book of the Royal Victoria College their names, home addresses and addresses in Montreal. Students of the Royal Victoria College not residing with their parents or guardians in Montreal, who do not apply for residence in the College, are required to submit their plans for residence in writing to the Warden and to obtain written approval.

CHANGING COURSES

Students may change the courses for which they have registered provided that the changes do not conflict with the regulations and that the change is made not later than the 15th of October. No CHANGES CAN BE MADE AFTER THIS PERIOD. Application to change courses must be made to the Dean's Office.

ADVISERS

At the time of registration each student entering the University for the first time is interviewed by a member of the Committee of the Board of Student Advisers. At this interview the student is given any information or advice that he may need and is assisted in the selection of his courses.

CONCERNING STUDENTS WHO INTEND TO PROCEED INTO THE PROFESSIONAL FACULTIES

Each undergraduate in the Faculty is required to register for one of the three bachelor's degrees offered, and, unless otherwise instructed by the Dean, must follow the regular work of his year towards this degree.

There are no specially organized courses of study in the Faculty for students intending, at the end of their First, Second or Third Year, to enter one of the other Faculties and such students are advised, before registering for the first time in the Faculty of Arts and Science, to acquaint themselves with the entrance requirements laid down by these other Faculties (see the General Announcement).

Students who have completed with good second class standing three years of the General Course leading to the Arts degree and two years in the Faculty of Medicine will, on application, be recommended by the Faculty of Arts and Science for the B.A. degree, if they have satisfied all the specific requirements of the First, Second, and Third years for the B.A. degree as to subjects, and in each of the second and third years taken three courses in Arts subjects so chosen as to fulfil the requirement of continuation study or its equivalent. This regulation comes into effect for those students entering the second year of the Arts course in 1940-41.

Applications for the Arts degree from students in Medicine who completed three years of the course before this regulation was enacted will be considered by the Faculty on their merits and according to the regulations in effect at the time when they were registered in the Faculty.

Students completing three years in the course leading to either the Arts or the Science degree and two years in Medicine are entitled to apply to the Faculty of Arts and Science for the degree of B.Sc. Students will not however be recommended for the B.Sc. degree unless they have satisfied the specific requirements for that degree or their equivalent. Students, with high distinction in the first three years of the B.Sc. course who maintain that standing in the first two years in Medicine at McGill will be granted the degree with distinction or great distinction.

A minimum of two years in the Faculty of Arts and Science is required for admission into the Faculty of Law. Nevertheless, candidates proceeding to the Bar of the Province of Quebec must be British subjects, hold the degree of B.A., B.Litt., or B.Sc. from a Canadian or British University, and satisfy the Bar examiners that they have successfully completed "the regular course in philosophy" in an approved university. Students are advised to take this course in philosophy before entering the Faculty of Law. The following courses are available: Philosophy 1, 2, 3, and 4 (see page 303).

ATTENDANCE

1. Students of the first and second years and all partial students (page 241) and students on probation (page 247) are required to attend at least seven-eighths of the total number of lectures or laboratory periods in each course. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to come up for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth must repeat the work in that course.

Excuses on the ground of illness, domestic affliction or accident are dealt with only by the Dean.

Excuses for absences in excess of one-eighth are entertained only in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction, and such other cases as are provided for by special regulations of the Faculty. Medical certificates covering absences must be presented at the Dean's office by the student immediately after his return to University work. Such certificates are filed, and, if they are accepted, the Dean gives the student a statement excusing the absences covered; this must be shown to all the professors concerned as promptly as possible.

2. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. These cases are dealt with by the Dean of the Faculty.

3. Lectures commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they report themselves at the close of the lecture and are marked "late". Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of the lecture are marked absent.

MID-SESSIONAL EXAMINATIONS

There are no regular mid-sessional examinations in January except in courses which are given only in the first term, and in these courses the examination may be held in May with the other final examinations if the Department so desires. Members of the teaching staff may, however, give from time to time such interim examinations as they think necessary.

FINAL EXAMINATIONS

The final examinations are held in April and May.

PASS MARK AND CLASSES

The pass mark in all examinations is 50 per cent, and the marks for first and second class standing are 80 per cent and 65 per cent respectively.

ADVANCEMENT TO REGULAR STANDING IN ANY YEAR

An undergraduate is in regular standing only if he has completed all the courses of his previous years.

An undergraduate who has not passed all his examinations in May will have his standing determined in September, on the results of the regular supplemental examinations.

REGULATIONS CONCERNING SUPPLEMENTAL EXAMINATIONS

A student who has failed in one or more courses is expected to write the regular supplemental examinations in these courses in the following September.

A student who fails to pass a supplemental examination in September or who is prevented by illness or other compelling reason from writing, may apply to the Dean for permission to write the next regular examination, normally in May, provided that there is no conflict in the examination time-table.

All applications for supplemental examinations must be made to the Dean in writing and must reach the office of the Dean before September 1st (for the September supplemental examinations), December 1st for the regular examinations of first term courses and March 15th for the May sessional examinations if written as supplemental examinations.

The fee for all supplemental examinations, including the regular examinations of the first term or of the session is $10 for each paper.

The fee must accompany the written application and is payable to McGill University.

ADVANCEMENT WITH CONDITIONS

If after the supplemental examinations in September a student still has a failure in only one full course or two half-courses of the year he is attempting to complete, he may proceed to the following year *conditioned* in this course or in these two half-courses.

A student who has been conditioned in any course for a year is not promoted until the condition is removed. As an example, a student of the second year conditioned in a first year course must complete this course before he can enter the third year.

A student may remove a condition either by passing a supplemental examination in September or by taking the regular examination in the course as a supplemental or, if the course is not compulsory, by substituting for it a different course, by permission of the Dean. The condition is not removed if the student fails to pass such a substituted course.

The student must register for the substituted course at the beginning of the session and pay a special fee of $10.00 for the substitute course (one full course or two half courses). There will be no supplemental fee required in the case of substitute courses.

FAILURE TO ADVANCE: PROBATION

1. A student who after the September supplemental examinations is not qualified to proceed either as a regular or as a conditioned student is placed *on probation*.

   Examples:—A second year student who has failed to remove a first year condition, or a student who has failed in more than one full course of the past session.

2. A student remains on probation until his deficiencies are removed.

3. A student on probation is required to take a year of study consisting of at least four courses. Courses required for the student's degree must be repeated in the year of probation if the student has previously failed in them. The remainder of the courses are selected with the approval of the Dean.

4. All the courses of the year of probation must be passed before the student will be admitted to regular standing.

5. Courses taken to fulfil the requirements of the year of probation can not be credited to a subsequent year of regular standing.

WITHDRAWAL FROM THE FACULTY

Students whose records do not justify their continuance in the Faculty may be requested to withdraw.

FEES

The regular fees and special fees are given in the General Information Pamphlet included in this Announcement.

SPECIAL FEES IN ARTS AND SCIENCE.

1. *High School Diploma Course for Graduates.* Students in the Graduate Year leading to the High School Diploma pay a University fee of $125. This does not include the fee of $20 for the special course in teaching French, Music, and Drawing (see page 279).

2. *Conditioned Students.* Special fee for an additional course repeated or substituted (one full course or two half courses) $10.00.

3. Students of the Faculty of Arts and Science who are permitted by the Dean to take lectures in the School of Commerce as part of their regular course, pay an additional fee of $10.00 for each course in Commerce.

4. Graduates of the Faculty taking undergraduate lectures for which no academic credit is sought pay one-half the partial fee, with a maximum of one hundred and fifty dollars. Graduates of the Faculty and Graduates of other Universities attending full courses in affiliated theological colleges who are taking undergraduate lectures for which credit is sought will pay the regular partial fee, with a maximum of one hundred and fifty dollars. This does not apply to courses for which there is a special fee.

DATES OF PAYMENT.

Fees are due and payable at the Bursar's Office during the hours of 9 a.m. to 1 p.m. or 2.30 to 4.00 p.m., Saturday 9 a.m. to 12 noon, on the following dates:

Tuesday, September 28th.
Wednesday, September 29th.

If desired, fees may be remitted by mail on or before the due dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the following paragraph:

Immediately after the prescribed dates for the payment of fees the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

SCHOLARSHIPS, PRIZES, MEDALS, AND LOAN FUNDS

Details of Scholarships, Bursaries, Prizes, Medals, and Loan Funds are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

DEGREES AND COURSES OF STUDY

The Faculty of Arts and Science offers courses of study leading to three degrees:

Bachelor of Arts.
Bachelor of Science.
Bachelor of Commerce.

The courses offered by the Faculty are grouped in four ways in order to secure a co-ordination and integration of the courses of study—viz.: the Humanities, Social Studies and Commerce, Physical Sciences, and Biological Sciences.

A course of study for the Arts degree is predominantly concerned with the Humanities, comprising language, literature, and philosophy, and the Social Studies, economics, education, history, political science, sociology.

A course of study for the Science degree emphasizes the Physical Sciences, mathematics, chemistry, geology, and physics, and the Biological Sciences, anatomy, bacteriology, biochemistry, botany, genetics, physiology, psychology and zoology.

For details of the Commerce course see the Announcement of the School of Commerce.

In the case of both the Arts and the Science degrees the course of study includes one or more subjects from other groups than the particular one in which the major part of the course of study lies.

There are two distinct kinds of degrees conferred in Arts and Science, the General Degree and the Honours Degree.

A student proceeding to a General Degree has a wide range of subjects from which to choose his courses but he must concentrate from the Second Year onward on two subjects called *Continuation Subjects* and he must select one or more courses in other subjects so that there may be a proper distribution of his studies. The continuation subjects are chosen from a list of those which are laid down as appropriate to the degree for which the student is a candidate. A full course (or two half-courses) must be taken each year in each of these two continuation subjects. The elective courses necessary to make up the work of each year should be chosen by the student so that he may fulfil (*a*) the requirements of that particular year and (*b*) the prerequisite requirements of any course that he wishes to take in the following year.

When the student's record during his Second, Third and Fourth Years of the General Course averages a high second class standing a special award of Distinction is made at graduation. When the record averages first class standing the award made is Great Distinction.

A student proceeding to an Honours Degree chooses either (a) one subject or (b) two cognate subjects in which to specialize. He will also take courses in other subjects selected with the approval of the department or departments in which he is studying. The honours courses normally begin in the Second Year, though in the case of students of exceptional merit they may be commenced in the Third Year. The student must attain at least second class standing each year in order to continue in the course for the honours degree. The whole record during the Second, Third and Fourth Years is taken into consideration at graduation and honours are awarded by the Faculty on the recommendation of the department or departments in which the student has elected to study.

A student who is qualified by matriculation to proceed to the B.A. or B.Sc. degree and who does not know at the beginning of his first year which degree he desires to obtain may qualify to enter the second year leading to either of these degrees by taking in his first year—English, Mathematics, a Classical Language, Physics and Chemistry.

Subjects and Courses Required for the Degree of Bachelor of Arts

Every candidate for the B.A. degree must meet certain requirements whether he is proceeding towards an Honours or a General degree. A course in English, in Classics (Greek or Latin), and in Mathematics is required in the First Year of study.

With the Dean's permission a student may be allowed to replace Mathematics by a first year course in another subject in which he has shown marked proficiency and which is in accordance with the trend of the studies that he is proposing to pursue. A student may also be granted, with the Dean's permission, exemption from the first year Classics requirement if he has been admitted to McGill on some other basis than that of (a) McGill Matriculation Examination, (b) Quebec High School Leaving Examination.

There is further required of all candidates for the degree a course in a modern foreign language, which may be taken in any year.

Where a student chooses to begin the study of a language in order to meet either the classics or the modern language requirement he must take and pass a further course subsequent to the elementary one to satisfy this language requirement. This rule applies, for example, to a student who begins the study of Greek or German or Spanish (there is no beginning course in French); in every case the elementary course alone will not satisfy the requirement for the B.A. degree. On the other hand a beginning course

is given full credit when it is taken as a simple elective which is not to be counted towards satisfying the language requirement, except that in the Fourth Year such an elementary course is treated as only a half-course.

For the General B.A. degree there is further the requirement of one course in a science subject, which may be taken in any year. The combination of the two half-courses, Botany 1A and Zoology 1B, is also acceptable as filling this requirement.

A student proceeding to an Honours degree is not required to take a course in Science.

In each of the First and Second Years five courses must be taken, that is, normally fifteen hours of class work per week; and in the Third and Fourth Years respectively, four courses, making twelve hours per week. The third hour each week in each individual course may be devoted to group conferences.

First Year of the B.A. Course (for Both General and Honours Degrees)

(*a*) *Compulsory Courses:*
English 2.
*Latin or Greek.
*Mathematics.
*(See above page 250 for the exemptions in Classics or Mathematics in exceptional cases.)

(*b*) *Elective:*
Two of the following:—
History.
Greek or Latin (if not already taken)
French.
German.
Spanish.
Science (Physics 1 or 1B or Chemistry 1 or 16 or Botany 1 or Zoology 1 or Biology 1).
Music.

Details of the work in each subject are given on pages 263 to 320.

Students seeking to qualify for the High School Diploma of the Province of Quebec have certain additional requirements to fulfil in both the First and Second Years. See page 278.

The student is normally free to elect *two* courses in the First Year which, together with the three compulsory courses, complete the total

of five required for that year. In choosing his courses, however, the student is advised by those who are registering him to give careful consideration to his selection. Three points must be remembered:

A. He has to consider the desirability of choosing a course in a modern foreign language; this may be taken in any year, but it is preferable to take it not later than the Second Year, because a student who subsequently elects to take an Honours course in some other subject than a foreign language may find it difficult to take this compulsory language course in the Third or Fourth Year when he is likely to be fully occupied with his Honours studies.

B. Unless he is intending to take an Honours course he has to choose, at some time or other during his four years, one of the science courses.

C. If he has in view taking an Honours course he must be careful to select the course in the First Year which is the prerequisite for such Honours study in the Second Year. A student who intends to study a subject either for Honours or Continuation is cautioned to look up the requirements of the appropriate departments, given on pages 263 to 320.

D. Before being admitted to Honours study in History the student is expected to have a knowledge of French and of Latin. The latter requirement may be satisfied by a first year college course following Matriculation Latin or, at the discretion of the Department, by high ranking in Latin in the Matriculation examination.

E. A student who intends to enter the Faculties of Medicine or Dentistry upon the completion of his third year must elect both Mathematics and Physics in his first year.

ADVANCED COURSES IN THE FIRST YEAR

Some departments giving instruction in the First Year offer special lectures or work of a more advanced character to students with adequate qualifications.

These advanced courses are generally arranged by the departments when lectures actually commence and there is in such cases no separate registration for them.

Students of scholarship standing entering the first year may, with the approval of the Dean, take second year courses in subjects for which they are especially qualified.

INTERIM TESTS

There are two regular interim tests for all students of the First Year, the first being held near the middle of November and the second during the week preceding the Christmas vacation.

The test is usually the equivalent of a standard examination of one hour.

Students who fail in more than one-third of these tests are not allowed to be members of a College athletic team, to hold office in any College society, or to take part in any major student activity.

THE GENERAL B.A. CURRICULUM IN SECOND, THIRD AND FOURTH YEARS

At the beginning of the Second Year a student proceeding to a General B.A. degree must choose two subjects from those listed below in Division I. These two subjects are designated Contination Subjects and are to be studied during the Second, Third and Fourth Years. A full course (or two half-courses) must be taken *each* year in each of the Contination Subjects. The additional courses necessary to make the total of five for Second Year, and four for each of the Third and Fourth Years, may be chosen from any of the subjects shown in either Division I or Division II listed below. The student in choosing his elective courses may seek the advice of one of the departments in which he chooses a continuation course. A student may select only those courses, for which he has the prerequisites laid down by the department in which such courses are given, and he is responsible for seeing that the courses chosen do not conflict as regards hours of lectures or laboratory periods.

A student is allowed to take an extra course only if he has obtained at least a second class average in his standing of the previous year.

SUBJECTS OF STUDY OFFERED FOR THE ARTS DEGREE

Division I

Economics.
English.
French.
German.
Greek.
History.
Latin.
Mathematics.
Philosophy.
Physics (when taken as a Continuation Subject with Maths.)
Political Science.
Psychology.
Sociology.
Spanish.

Division II

Ancient History.
Bacteriology.
Biochemistry.
Botany.
Chemistry.
Education.
Genetics.
Geology.
Music.
Physics.
Physiology.
Zoology.

A course intended primarily for First Year students may be counted as a full course in the Second Year.

Students who are pursuing a double course in Arts and Science and Divinity (six years at least) may take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts and Science, less a half course each year or a whole course in one year.

Honours lecture courses are open to properly qualified general students.

THE HONOURS B.A. CURRICULUM IN SECOND, THIRD AND FOURTH YEARS

At the beginning of the Second Year a student proceeding to an Honours B.A. degree may elect to take full honours in one subject or half honours in each of two cognate subjects; these subjects must be chosen from the list given in Division I (see above). Information as to courses to be taken can be found at the end of the descriptive material listed by the appropriate department on pages 263 to 320.

Normally when a student takes honours in two subjects, his certificate on graduation will indicate that the work done in each of these two departments amounts to only half a full Honours course in that department: e.g. First Class Honours in English (one-half) and History (one-half), or First Class Honours in English (one-half) and Second Class Honours in History (one-half). But in the departments of Classics and of Economics and Political Science each of which is divided into two sections—Classics into Latin and Greek and Economics and Political Science into Economics and Political Science, honours in each of these sections is equivalent to half-honours in another department and can be so combined; therefore the certificate on graduation will indicate these merely as honours: e.g. First Class Honours in Greek and Second Class Honours in Latin, or First Class Honours in Economics and Second Class Honours in History (one-half).

The conditions for entering Honours courses in Second Year are as follows:—

(a) A student must not have failed in more than one subject at the final spring examinations in the First Year.

(b) The sanction of the Dean and of the departments in which Honours are elected must be obtained.

(c) No student may take Honours in a subject in which he has failed to attain at least second class standing in his First Year.

A Second Year General student who shows exceptional merit in any subject in his Second Year examinations may, if he so wishes, and if the department is satisfied that his knowledge of the subject is sufficient

to enable him to reach the standard of Honours by two more years' study, be allowed to take up the Honours course in that subject at the beginning of his Third Year.

Honours courses in the Second Year consist of 15 hours per week and in each of the remaining two years 12 hours, covering lectures, conferences and tutorial classes. The work also involves wide reading and in addition to the actual subjects of lectures, study in the general subject selected, in accordance with a definitely prescribed programme. Attention is drawn to the fact that lectures are not given on all parts of the work, and that the examinations for Honours are not necessarily conducted exclusively by the persons who have given the courses.

In the Second Year a student registering for Honours in one subject only, fulfils the requirements of fifteen hours by taking a minimum of two courses or six hours in his Honours subject, and, in addition, such other courses in other departments (bringing the total to fifteen hours) as the department under which he is studying may direct. A student registering for combined Honours in two subjects fulfils the requirement of fifteen hours by taking two full courses in each Honours subject, or twelve hours altogether, and, in addition, one other course (making a total of fifteen hours), such as the two departments under which he is studying may direct. In regard to Honours courses for the Third and Fourth years the student should consult the regulations of the individual departments under which he is working.

Departments are at full liberty to recommend their Honours students to take one or more courses in cognate subjects as the equivalent of courses in their own departments.

Honours students who fail to attain second class honours standing at the end of the Second or Third Year must revert to the General course in their next and following year or years and fulfil its requirements unless they obtain special leave to continue their honours work from the department or departments interested.

An Honours student who has failed in any subject in the Third Year examinations is not allowed to continue his Honours course except with the consent of the Faculty.

A student's whole record during his Second, Third and Fourth Years will be considered in awarding Honours at graduation.

Students in Honours courses who fail to attain second class honours at graduation, or who succeed in attaining second rank honours only in one of two combined courses, must revert to the list of General students and if they are unable to satisfy the requirements of the General B.A. they will not be granted a degree.

Honours are awarded by the Faculty on the recommendation of the department or departments in which Honours are elected.

SUBJECTS AND COURSES REQUIRED FOR THE DEGREE OF BACHELOR OF SCIENCE

An undergraduate may proceed either to a General or an Honours B.Sc. degree; as the distinction between these is not made until the second year (or, in some cases, the third year), there is a common curriculum to be followed by all first year students.

First Year

English 2.
Mathematics 1.
Physics 1.
Chemistry 1 and 1L.
Elective Course.

Elective Subjects

Botany 1A and Zoology 1B.
French.
German.
Greek.
History.
Latin.
Music.
Spanish.

Pre-engineering students who have matriculated with only elementary mathematics may substitute the special course in mathematics, for Mathematics 1 and the Elective Course, so that they may attain during the year the standard required in mathematics for entrance to 1st year Engineering.

In special cases a qualified student may be granted permission to take either Botany 1, Geology 1, or Zoology 1 as the Elective Course. It is recommended that students intending to take an Honours course in Biological Science elect Botany 1A and Zoology 1B. More advanced courses are available also in Chemistry, Mathematics and Physics for those specially qualified or contemplating Honours.

For general information on Change of Course, on Attendance, on Examinations and Supplemental Examinations, and on Advancement from Year to Year see pages 243, 245, 246; on Distinction in the General Course see page 249; on special requirements for the High School Diploma see page 287; and on Interim Tests see page 252.

THE GENERAL B.Sc. CURRICULUM IN THE SECOND, THIRD AND FOURTH YEARS

In each of these years five courses are required; these courses must be spread over at least four subjects, and must be selected from the groups given below. The student is also required to pursue a continued study of two subjects during the major part of his last three years for the General degree. The normal sequence of courses in any subject chosen for continuation is shown in Group I below. Since courses in Bacteriology, Biochemistry, and Physiology are usually begun in the third year, a student is not obliged to choose these subjects for continued study until the beginning of his third year; in other cases he may commence his continuation subjects at the beginning of his second year. In any year a specially qualified student may be allowed, upon the recommendation of the department concerned, to substitute a more advanced course for any of those listed.

A student is not allowed to take an Extra Course unless he has obtained at least a second class standing in his previous year's work.

Second Year Requirements

Three subjects from Group I; one course from Group III and one course from Group I or II or III.

Third Year Requirements

Two subjects from Group I; one course from Group I or II; one course from Group III, and one course from Group I or II or III.

Fourth Year Requirements

The same as for Third Year, the two subjects previously chosen from Group I being continued throughout this year. It is permissible, however, to drop one of these continuation subjects in the fourth year provided that two courses be taken in the remaining continuation subject; in this case the student's courses may be spread over three instead of four subjects.

GROUP I (Continuation Subjects)

SUBJECT	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Biochemistry.	See below*	1.	3, or 2 and 4.
Botany.	1 or 2 or 3.	2 or 3.	2 to 8 (any one course to be chosen).
Chemistry.	2 or 3 or 4.	2 or 3 or 4.	any one advanced course.
Genetics.	1.	3 or 2 and 4.	3 or 2 and 4.
Geology.	1, or 5 and 6.	2 to 13. (any one course to be chosen).	2 to 13. (any one course to be chosen).
Mathematics.	2.	15 or 3 or 4 $\overset{\text{or}}{\underset{\text{and}}{}}$ 5.	3 or 4 or 8.
Physics.	2, or 2P	3A and (3B, 4)	(8A, 9) or (8A, 11) or (5A, 6C).
Physiology.		1B.	1A and 2B.
Zoology.	1.	2 or 3.	2 to 7. (any one course to be chosen).

*If Biochemistry is to be taken as a continuation subject in the Third Year, Chemistry 2 and Physiology 1B must be taken in the Second Year

A student selecting Physics as a continuation subject must also select Mathematics in the first three years.

GROUP II (Non-Continuation Subjects)

SUBJECT	COURSES
Bacteriology.	1S.
Biochemistry.	1, 2, 4.
Botany.	1 to 8.
Chemistry.	2, 3, 4, 5, 6, 8, 9, 10.
Geology.	1 to 13.
Genetics.	1, 2, 3, 4.
Histology.	1.
Mathematics.	2, 15, 3, 4, 5, 8.
Physics.	2P, 2, 3A, 3B, 4, 5A, 8A, 9.
Physiology.	1A, 1B, 2B.
Zoology.	1, 2, 3, 4, 5, 6, 7.

GROUP III (Arts Subjects)

Economics and Political Science.
Education.
English.
French.
German.
Greek.
History.
Latin.
Music.
Philosophy.
Psychology.
Sociology.

In selecting courses students should consult the departments concerned.

Details of the courses are given on pages 263 to 320.

HONOURS COURSES FOR THE B.Sc. DEGREE

Honours Courses begin normally in the second year and are offered in Bacteriology, Biochemistry, Botany, Chemistry, Functional Biology, Geological Sciences, Mathematics, Mathematics and Physics (combined), Physiology, and Zoology. Information as to courses to be taken can be found at the end of the descriptive material listed by the appropriate department on pages 263 to 320.

The conditions for entering Honours courses are as follows:—

(a) A student must not have failed in more than one subject at the final spring examinations in the First Year.

(b) The sanction of the Dean and of the Chairmen of the Departments in which Honours are elected must be obtained.

(c) No student may take Honours unless he has obtained at least a second class standing in the first general course offered in the subject elected.

Attention is drawn to the fact that lectures are not given on all parts of the work. The examinations for Honours are not necessarily conducted exclusively by the persons who have given the courses.

Honours students who fail to attain second class honours standing at the end of the Second or Third Year (and Third Year in the cases of Bacteriology, Biochemistry, Physiology, and Zoology) must revert to the General Course in subsequent year or years, unless they obtain special permission to continue their honours work from the department or departments concerned.

An Honours student who has failed in any course of his Honours subject in the Third Year Examinations is not allowed to continue his Honours course except with the consent of the Faculty.

Students in Honours courses who fail to attain second class Honours at graduation, or who succeed in attaining second class Honours only in one of two combined subjects, must revert to the list of General students.

Honours are awarded by the Faculty on the recommendation of the department or departments in which Honours are elected. A student's whole record during his Second, Third and Fourth years will be considered in awarding Honours at graduation.

HONOURS B.Sc. IN BIOLOGICAL SUBJECTS

First Year: As for General B.Sc. (Botany 1A and Zoology 1B, or, in special cases, Botany 1A and 1B, or Geology 1, or Zoology 1A and 1B, should be taken as the Elective Course).

Second Year: The second year requirements have been made to give the student the widest possible latitude and are acceptable to the various departments to the extent indicated. Alternative approaches to any particular biological subject may be found under the respective departmental announcement, together with the detailed curricula for the third and fourth years.

General second year requirements are as follows:—

Chemistry 2, 4, 10.

Three courses out of Botany 1.
Genetics 1.
Geology 1.
Physiology 1B.
Zoology 1.
Chemistry 3.
Mathematics 2.

If one of these courses has been taken in the first year, Physics 2P may be included among the three new courses. The other two must be chosen from this list.

Possible combinations compatible with the existing time-table are:

Chemistry 2, 4, 10.	Chemistry 2, 4, 10.	Chemistry 2, 4, 10.	Chemistry 2, 4, 10.
Physiology 1B.	Botany 1.	Zoology 1.	Geology 1.
Zoology 1.	Genetics 1.	Physiology 1B.	Zoology 1 or
Botany 1.	Zoology 1.	Mathematics 2 or Genetics 1.	Botany 1 Chemistry 3A (or equivalent)
leads to honours in	leads to honours in	leads to honours in	leads to honours in
Botany.	Zoology.	Biochemistry.	Geology.
Zoology.	Botany.	Zoology.	Zoology or
Bacteriology		Bacteriology.	Botany.
Biochemistry.			

HONOURS B.Sc. IN FUNCTIONAL BIOLOGY

Students taking the First and Second Year curricula for the Honours degree in Biological subjects may proceed, as already indicated, to Honours in Bacteriology, Biochemistry, Botany, Physiology, or Zoology. Alternatively they may proceed to this Honours course in Functional Biology, postponing final specialization in one or other of the subjects listed above, or in Genetics, until postgraduate years. The degree in Functional Biology affords a balanced study of animals and plants as living organisms, and is a basic training for any biological science.

Permission to take the course must be obtained from the Chairman of the Biological Sciences Group.

Curriculum

Note: Students are reminded that courses chosen in any year may affect their freedom of choice in subsequent years either because of time-table conflicts or because certain prerequisite courses have not been taken.

Students must submit their proposed programme of studies to the Group Chairman and must obtain his approval before they will be permitted to register for this Honours course.

Prerequisite. General First Year B.Sc. course with the required standing. Botany 1A and Zoology 1B, or Botany 1 or Zoology 1, should be taken as the Elective course.

2nd Year. As for Honours B.Sc. in Biological subjects.
(Botany 1 and Zoology 1 must have been taken during the first two years).

3rd Year. Five courses out of:—
- Botany 2.
- Physiology 1A or 1B or 2B
- Chemistry 3
- Genetics 1
- Zoology 2, 3, 4, 5 (not more than two)
- Bacteriology 1
- Philosophy 1
- Mathematics 2 or 3
- Physics 2P or 3A

4th Year. Five courses out of:—
- Biochemistry 1
- Biochemistry 2, 4
- Bacteriology 1S
- Botany 4 and Genetics 2
- Physiology 1A and 2B
- Genetics 1 or 3
- Zoology 2, 3, 4, 6 (not more than two)
- Physiology 3 or 4
- Botany 5
- Botany 6
- Chemistry 3

ENGINEERING PHYSICS

This course is intended to train men for research or academic positions, and is open only to students accepted for the Honours Courses in Mathematics and Physics. Subject to the approval of the Chairmen of the Departments of Electrical Engineering and Physics, it is available to

(1) students in the Faculty of Arts and Science entering their third year who have satisfactorily completed the Second Year Honours Course in Mathematics and Physics.

and (2) students in Engineering who have completed the first and second years with first or second class standing in Mathematics and Physics.

Third Year

Mathematics 6 and 7.
Physics 5B, 6B (or 8B), 6C.
Electrical Engineering 113, 114.

Fourth Year

Mathematics 10 or 11.
Physics 5A, 6A, 7A, 7B, 8A, 8B (or 6B), 9.
*Summer Thesis or Shop Work.

The student may now receive the B.Sc. degree with Honours in Mathematics and Physics. In his fifth year he may either proceed towards the M.Sc. degree taking some of the fourth year Electrical Engineering courses as advised by the Chairmen of the Departments of Physics and Electrical Engineering; or, if he has completed the first and second years in Engineering, he may proceed to the degree of Bachelor of Engineering in Electrical Engineering, taking such subjects of the third and fourth year courses in Engineering as are approved by the Faculty of Engineering.

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*This is required in the case of students proceeding later to the degree of B.Eng.

COURSES OF LECTURES IN ARTS AND SCIENCE

The hours indicated for lectures and laboratory periods are only tentative and should be confirmed at registration; arrangements for the Military Training of students necessitate revision of time-tables. Courses in the Faculty of Arts and Science may be cancelled because of insufficient registration.

ANATOMY

Professor of Anatomy.....C. P. MARTIN
Associate Professor of Histology.....H. SELYE
Assistant Professor of Anatomy.....D. S. FORSTER
Lecturer in Histology.....C. P. LEBLOND

Before registering for the following course, students must consult the Chairman of the department to ensure that they are qualified to undertake the work.

MICROSCOPIC ANATOMY

1. HISTOLOGY.

The course, which corresponds to Anatomy 5 in the medical curriculum, consists of three weekly classes during the first half year. The course begins at the opening of the medical session, in the beginning of September.

Text-book: Bailey, Textbook of Histology.

ARCHITECTURE

HISTORY OF ART, AND AESTHETICS: 24 lectures each.

These lectures may be taken by students in the Faculty of Arts and Science. If later these courses are expanded, the question of credits will be considered.

BACTERIOLOGY AND IMMUNITY

Professor.....E. G. D. MURRAY
Associate Professor.....FREDERICK SMITH
Assistant Professors.....T. E. ROY*, C. D. KELLY, D. S. FLEMING
Lecturer.....W. H. MATHEWS*

(All lectures and laboratory courses are given in the Department of Bacteriology, Pathological Institute.)

COURSE 1. ELEMENTARY MEDICAL BACTERIOLOGY AND IMMUNITY.

Thirty lectures and 63 hours' practical work, commencing September 3rd. Available to Medical and Dental students on the satisfactory completion of their studies in Anatomy, Physiology, Histology and Biochemistry.

COURSE 1. S. ELEMENTARY BACTERIOLOGY.

Available to students in the Faculty of Arts and Science and to graduate students.

Mon., Wed., Fri., at 10 a.m. Lab., Tue., Fri., 2-5 p.m. Second Term.

Students must provide themselves with microscopes; these can be hired from the Purchasing Department. 41 lectures and 75 hours of practical work.

*On military service.

COURSE 2. APPLIED MEDICAL BACTERIOLOGY AND IMMUNITY AND THE PROCESSES OF INFECTIOUS DISEASES.

Available to Medical students only.

COURSE 3. BACTERIOLOGY AND IMMUNITY *for Honours B.Sc.*

Available only for Honours students in their Fourth Year. Partial students in the Faculty of Arts and Science and in the Faculty of Graduate Studies are admitted if they have suitable qualifications.

6 lectures and 12 hours practical work a week throughout the year. This is equivalent to 3 full courses. Biochem. 5 (lectures only) is compulsory. One other course is to be selected by the student.

Students must provide themselves with microscopes; these can be hired from the Purchasing Department.

Text books:—Hans Zinsser & S. Bayne-Jones, Textbook of Bacteriology (Appleton); R. Muir & J. Ritchie, Manual of Bacteriology (Oxford University Press); R. T. Hewlett & James McIntosh, Manual of Bacteriology (Churchill); T. J. Mackie & J. E. McCartney, Practical Bacteriology (Livingstone); Hans Zinsser, Resistance to Infectious Diseases (Macmillan); W. W. C. Topley & G. S. Wilson, The Principles of Bacteriology & Immunity (Edward Arnold & Co.); W. W. C. Topley, An Outline of Immunity (Arnold); M. Langeron, Précis de Microscopie (Masson et Cie); D. H. Bergey, Manual of Determinative Bacteriology (Williams & Wilkins); E. O. Jordan and W. Burrows, Text-book of Bacteriology (W. B. Saunders Co.); Frederick P. Gay, Agents of Disease and Host Resistance (Charles C. Thomas); Practical Bacteriology, Haematology and Animal Parasitology, E. R. Stitt, P. W. Clough and M. C. Clough (P. Blakiston Sons & Co.); An Introduction to Bacteriological Chemistry, C. G. Anderson (Macmillan Co. of Canada); A text-book of Medical Bacteriology, D. L. Belding and A. T. Marston (Appleton-Century); The Biology of Bacteria, A. T. Henrici (Heath & Co.); Fundamentals of Bacteriology, Martin Frobisher, Jr. (W. B. Saunders Co.), N. P. Sherwood, Immunology (C. V. Mosby Co.), H. Zinsser, J. F. Enders and L. D. Fothergill, Immunity Principles and Application in Medicine and Public Health (Macmillan Co.), J. A. Kolmer and L. Tuft, Clinical Immunology Biotherapy and Chemotherapy (W. B. Saunders Co.), R. W. Fairbrother, A Text-book of Medical Bacteriology (W. Heinemann, Ltd.).

CURRICULUM FOR B.SC. HONOURS IN BACTERIOLOGY

Prerequisite:—An aggregate standing of high second class must be obtained in the subjects submitted for the First Year and good standing maintained in subsequent years.

The Chairman of the Department should be consulted in selecting subjects to be studied in the Second and Third Years.

The following course of study has been found suitable for most students but may be modified to suit individual cases.

First Year: First year B.Sc. preferably including Botany 1A, Zoology 1B.

Second Year: Physiology 1A; Botany 1B; Zoology 1A; Chemistry 2, 4, and 10; Genetics 1; and one other course.

Third Year: Biochemistry 1 and 1L; Physiology 2A; Botany 33; Histology 1 or Zoology 5; Bacteriology 1S.

Students of Medicine who have done sufficiently well in their Medical Bacteriology and in their Medical studies in general will be admitted to Course 3.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

BIOCHEMISTRY

Professor.....D. L. THOMSON
Assistant Professors.....O. F. DENSTEDT, R. D. H. HEARD
Sessional Lecturer.....C. GWENDOLINE TOBY
Demonstrator.....SYBIL M. SCOGGAN
Research Associate.....DOROTHY OSBORNE

1. GENERAL PHYSIOLOGICAL CHEMISTRY.

1. Lectures: Monday, Wednesday, Friday at 9..Professor Thomson.

Text-books:—Bodansky, Introduction to Physiological Chemistry (Wiley); Cameron, Text-book of Biochemistry (Macmillan); Williams, Text-book of Biochemistry (van Nostrand).

1 L. Laboratory:—Two 3-hour periods weekly. A synopsis of the course is issued by the Department.

Note:—This course is given in Medicine, Dentistry and Arts and Science simultaneously and falls in the second and third quarters of the first year medical course. Prerequisites are Chemistry 2, Physiology 1A; Physiology 2A, if not already taken, should be taken concurrently.

2. ENDOCRINOLOGY.

Lectures:—Wednesday at 3.....Professor Heard.

Text-books:—Cameron, Recent Advances in Endocrinology (Blakiston or Churchill); Grollman, Essentials of Endocrinology (Lippincott).

Note:—Students should have taken, or should take concurrently with this course, Biochemistry 1, Physiology 2A. This course is also taken by second year medical students.

3. ADVANCED BIOCHEMISTRY.

Lectures:—Monday, Wednesday, Friday, at 11..Professor Denstedt.

Text-book: — Harrow and Sherwin, Text-book of Biochemistry (Saunders); Hawk and Bergeim, Practical Physiological Chemistry (Blakiston).

3 L. Laboratory:—12 hours weekly, times to be arranged. First Term. For Honours students in the Department only.

Note:—Prerequisites are Biochemistry 1, Chemistry 4.

4. NUTRITION.

Three lectures per week (Second Term).....Professor Thomson.

Text-book:—Sherman, Chemistry of Food and Nutrition (Macmillan).

Note:—Biochemistry 1 is prerequisite.

5. METABOLISM.

Lectures:—Monday, Friday at 2.....Professor Thomson.

5 L. Laboratory:—12 hours weekly, times to be arranged. Second Term. For Honours students in the Department only.

Note:—Biochemistry 1 is prerequisite.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

HONOURS COURSE IN BIOCHEMISTRY

First Year

First Year B.Sc. (Botany 1A and Zoology 1B recommended.)

Second Year

Zoology 1A and Physiology 1A.
Chemistry 2, 3, 4 and 10.
Genetics 1 or Mathematics 2.

Third Year

Biochemistry 1 and 2.
Physiology 2A and 2B.
Chemistry 5 or Zoology 5.
Bacteriology 1S.

Fourth Year

Biochemistry 3, 4 and 5, 3L and 5L.

Two other courses, selected from Chemistry 5, Genetics 4, Zoology 6, etc.

Candidates for the Honours B.Sc. Degree in Biochemistry are expected to attain at least second class standing in all subjects, and 75 per cent in Biochemistry 1.

BOTANY

Professor.....GEORGE W. SCARTH
Associate Professor.....MURIEL V. ROSCOE
Assistant Professor.....R. D. GIBBS

1. GENERAL BOTANY.

Section A. First term. Evolution of the plant kingdom.
Mon., Wed., Fri., at 12. Laboratory Tu. or Th., 2-5.
Professor Gibbs.

Section B. Second term. Structure and function of the higher plants. Mon., Wed., Fri., at 11. Laboratory, Tu. or Th., 2-5.

Professor Roscoe.

The following sequence of courses is recommended to students taking Botany as an Honours or as a continuation subject; First Year, Botany 1A and Zoology 1B; Second Year, Zoology 1A and Botany 1B.

2A. General Physiology.

First term: Tu., Th., at 12. Laboratory Thurs. 2-5.

Professor Scarth.

2B. Elementary Plant Physiology.

Second term: Tu., Th., at 12. Laboratory Thurs. 2-5.

Professor Scarth.

3. Morphology and Taxonomy.

Mon., Wed., at 11. Laboratory Wed. 2-5.

Professor Gibbs.

4A. Plant Anatomy.

First term: Hours to be arranged.

Professor Roscoe.

*5. Plant Biochemistry.

Tu., Th., at 11. Laboratory hours to be arranged. 6 hours for Honours Students.

Professor Gibbs.

*6. Advanced Pyysiology.

Fri., 2 and 3 Laboratory hours to be arranged.

Professor Scarth.

*7. Technical Botany. Botany 1B prerequisite.

A special course for Cellulose Chemistry students. Given in alternate years; next in 1944-45.

Hours to be arranged.

Professors Roscoe and Gibbs.

*8. Special Topics.

Prescribed reading, conference and practical work in selected subjects such as Taxonomy of Special Groups, Ecology, Anatomy, Microtechnique and Biochemistry.

The Staff.

Plant Pathology 33 (Mycology).

Counts as an Honours course in Botany. It is normally given at Macdonald College and hours can be arranged for attendance there one day a week. May be given at McGill if sufficient students register.

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*Courses for Graduates and Honours Students.

HONOURS COURSE IN BOTANY

First and Second Years: The general B.Sc. curriculum (pp. 256-259) suffices provided Botany 1 is included. The general second year requirements for Honours in Biological subjects (pp. 260) is a guide in the choice of courses for the second year but greater latitude is allowed as follows: Chemistry 10 is not essential, Chemistry 4 may be postponed from second to third year, an Arts subject (Group III) is optional, and, if Botany 1 has been taken in the first year, Botany 2 or 4A may be included in the second. Zoology 1 is recommended.

Third Year: Botany 2 and 4A, two other courses in Biological or Cognate subjects and a fifth course from any group of subjects.

Fourth Year: Botany 3. Two of Botany 5 to 8. Two other approved courses.

The Honours Course in Botany prepares students for graduate work in the departments of Genetics and Plant Pathology as well as Botany. Allowing, as it does for considerable study of other biological subjects it forms also a suitable preparation for the teaching of Biology in schools.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

TEXT BOOKS

General Botany: Brown—The Plant Kingdom (Ginn & Coy.); Coulter—The Story of the Plant Kingdom (Gage & Univ. Chicago Press); Haupt—An Introduction to Botany (McGraw-Hill); Holman & Robbins—Text-book of General Botany (Wiley); Hill *et al*—Botany (McGraw-Hill); Smith, Overton *et al*—Gen. Botany (Macmillan).

Anatomy and Microtechnique: Eames & MacDaniels—Introduction to Plant Anatomy (McGraw-Hill); Jeffrey—Anatomy of Woody Plants (Univ. Chicago Press); Sass—Botanical Microtechnique (McGraw-Hill); Chamberlain—Methods of Histology (Univ. Chicago Press); Johansen—Plant Microtechnique (McGraw-Hill).

Physiology and Biochemistry: Scarth & Lloyd—General Physiology (Wiley); Text books of Plant Physiology by Myer and Anderson (Van Nostrand), Maximov (McGraw-Hill), and Miller (McGraw-Hill); Onslow—Principles of Plant Biochemistry (C.U.P.); Onslow—Practical Plant Biochemistry (C.U.P.); Haas & Hill—Chemistry of Plant Products (Longmans); Morrow and Sandstrom—Lab. Methods in Biochem.

Taxonomy and Morphology: Gray's Manual (American Book Co.); Spotton *et al*—Wild Plants of Canada (Gage); Marie Victorin—Flore Laurentienne; Pool—Flowering Plants (McGraw-Hill); Smith—Cryptogamic Botany (McGraw-Hill); Smith—Fresh Water Algae of the United States (McGraw-Hill); Eames—Morphology of Vascular Plants (McGraw-Hill); Chamberlain—Gymnosperms, Structure and Evolution (Univ. Chicago Press.); Johnson—Taxonomy of Flowering Plants (Century).

Ecology: Weaver and Clements (McGraw-Hill).

Mycology: Bessy—Text of Mycology (Blakiston).

CHEMISTRY

Professors.....{O. MAASS
W. H. HATCHER

Associate Professors.....{J. B. PHILLIPS
J. H. MENNIE
W. H. BARNES

Assistant Professors.....{C. A. WINKLER
R. V. V. NICHOLLS

Lecturer.....J. H. ROSS

Sessional Lecturer.....R. BOYER

1. GENERAL CHEMISTRY.

Lectures, Mon., Wed., Fri., at 2 and 3.

Section A.—For Matriculants at 2—Professor Barnes.

Section B.—For Beginners at 3—Professor Hatcher.

Text-books:—Hatcher, Introduction to Chemical Science (Wiley); Briscoe, An Introduction to College Chemistry (Houghton Mifflin); Schlesinger—General Chemistry, third edition (Longmans, Green, 1937).

Laboratory (1L), Tu. or Th., 2-5.

Professor Barnes and Demonstrators.

Text-book:—Barnes—General Chemistry Laboratory Manual, second edition (Renouf).

NOTE: Physics 1 (or its equivalent) is prerequisite unless taken concurrently.

2. ORGANIC CHEMISTRY (ELEMENTARY) (No. 56 Fac. Eng.).

Lectures, three hours.....Professor Hatcher and Dr. Boyer.

Laboratory, three hours, Mon., Wed., or Fri. 2-5.

Professor Hatcher, Dr. Boyer and Demonstrators.

Text-books:—Lucas, Organic Chemistry (American Book Co.); Wertheim, Organic Chemistry (The Blakiston Co.); Karrer, Organic Chemistry (Nordemann Pub. Co.); Nicholls, An Introduction to Practical Organic Chemistry (Renouf).

NOTE:—Chemistry 1 and Physics 1 or equivalent are prerequisite to this course.

3. Analytical Chemistry (Elementary) (Nos. 53, 54 Fac. Eng.).

(*a*) Qualitative Analysis.

First term: Tu., Th., at 9; laboratory six hours, Mon., Wed., 2 to 5.

(*b*) Quantitative Analysis.

Second term: Tu., Th., at 9; nine hours laboratory, Mon., Wed., 2 to 5, Sat. 9 to 12.

Text-books:—Curtman, Qualitative Chemical Analysis (Macmillan); Mennie, Laboratory Instructions in Quantitative Analysis.

Professor Mennie and Demonstrators.

4. Physical Chemistry (Elementary).

First term: Tu., Th., Sat. at 12. Second term: Tu. at 12.

Professor Winkler.

Text-book:—Maass and Steacie, Introduction to the Principles of Physical Chemistry, second edition (Wiley).

*5. Organic Chemistry (Advanced I) (No. 65 Fac. Eng.)

Mon., Wed., at 12.

Laboratory (5L) six hours per week.

Professor Nicholls and Demonstrators.

Text-book:—Fieser, Experiments in Organic Chemistry (Heath).

*6. Inorganic Chemistry (Advanced) (No. 72 Fac. Eng.).

Tu., Th., at 10.....Professor Mennie.

Text-book:—Latimer and Hildebrand, Reference Book of Inorganic Chemistry (Macmillan).

*7. Physical Chemistry (Advanced I) (No. 66 Fac. Eng.).

Fri., at 12.....Professors Maass and Winkler.

Briscoe: Structure and Properties of Matter (McGraw-Hill).

Findlay and Campbell: The Phase Rule (Longmans-Green).

*7L. Physical and Colloid Chemistry Laboratory (No. 66A Fac. Eng.)

Nine hours.....Professors Maass, Winkler and Demonstrators.

Text-book:—Daniels, Matthews & Williams, Experimental Physical Chemistry, second edition (McGraw-Hill).

8. Quantitative Analysis (Advanced I).

First term: Mon., at 11; laboratory twelve hours, Tu., Th., Fri., 2 to 5, and Sat. 9 to 12.

Prerequisite Chem. 3a and 3b.

Professor Mennie and Demonstrators.

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*Courses for Graduates and Honours Students.

*9. History of Chemistry (No. 74 Fac. Eng.).
Thurs. at 11. (Not given in 1943-44).....Professor Barnes.
Text-book:—Partington, A Short History of Chemistry (Macmillan).

10. Carbohydrates, Fats, Amino-Acids, Resins (No. 58, Fac. Eng.)
Second term: Th., Sat. at 12. Prerequisite Chem. 2.
Professor Nicholls.

*11. Electro-Chemistry. (No. 70 Fac. Eng.).
First term: Two lectures per week, Mon. at 9.....Professor Mennie.
References:—Creighton, Electro-Chemistry (Wiley); Glasstone, Electro-Chemistry of Solutions (Methuen).

*12. Physical Chemistry (Advanced II) (No. 66 Fac. Eng.).
Wed., Fri., at 9.....Professors Maass and Winkler.
Text-books:—Taylor: Treatise on Physical Chemistry (Van Nostrand); Hinshelwood: Kinetics of Chemical Change (Oxford).

13. Inorganic Chemical Technology.
Prerequisite Chem. 1.....Professor Phillips.
Optional reading course, Wed. and Fri. at 11, 1st term.

14. Organic Chemical Technology.
Prerequisite Chem. 1 and 2.....Professor Phillips.
Optional reading course, Wed. and Fri. at 11, 2nd term.

*15. Colloid Chemistry (No. 75 Fac. Eng.).
Tu., at 11.....Professor Winkler.
Text-book:—Hartman: Colloid Chemistry (Houghton-Mifflin). Weiser: Colloid Chemistry (Giley).

16. The Chemistry of Daily Life.
Tu., Th. at 3.....Professor Hatcher.
Open to B.A. and B.Com. students without laboratory; also to students in the School for Graduate Nurses.
Text-book:—Hatcher, Introduction to Chemical Science (Wiley).

*17. Thermodynamics (No. 76 Fac. Eng.).
First term: Wed. and Fri. at 10.....Professor Winkler.
Second term: Wed. at 12, Fri. at 10.
Text-books:—Steiner: Introduction to Chemical Thermodynamics (McGraw-Hill); Lewis & Randall: Thermodynamics (McGraw-Hill).

*18. Organic Chemistry (Advanced II).
Second term: Mon., Wed., at 10.....Professor Nicholls.

*Courses for Graduates and Honours Students.

*19. Physico-Organic Chemistry.
Tues. at 10.....Professors Barnes and Hatcher.
(Not given in 1943-44.)

*20. Organic Chemistry (Advanced III).
First term: Eighteen hours laboratory per week.
Professor R. V. V. Nicholls.

*21. Analytical Chemistry (Advanced II).
Wed. at 11; laboratory 12 hours per week in the second term.
Professor Mennie.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

B.SC. HONOURS COURSE IN CHEMISTRY

This course begins in the Second Year. First Year students intending to take Honours in Chemistry must consult the Department before the end of the session. Those who have taken Chemistry 1B are normally required to do some additional reading and to pass a qualifying examination at the end of the summer vacation.

Prerequisites: At least second class standing in Chemistry 1 and 1L, Mathematics 1 and Physics 1 or their equivalents.

Second Year: Chemistry 2, 3a, 3b, 4; Mathematics 2 or 3; Physics 3a.

Third Year: Chemistry 5, 6, 7, 8, 10, 17; Mathematics 3 (if not already taken).

Fourth Year: Chemistry 7L, 9, 11, 12, 15, 18, 19, 20 and 21.

Note:—Students anticipating specialization in Chemistry are recommended to include Intermediate Mathematics in their Junior Matriculation subjects. If they enter by Senior Matriculation they should include Co-ordinate Geometry in this examination.

CLASSICS

Professors.....W. D. Woodhead, Clive H. Carruthers
Associate Professor.....Alexander M. Thompson
Assistant Professor.....Paul F. McCullagh**
Lecturer.....E. M. Counsell**

Greek

All students taking Honours in Greek are expected to provide themselves with a grammar, a Greek-English dictionary, a classical dictionary,

*Courses for Graduates and Honours Students.
**On war service.

and an atlas of ancient geography. The following are recommended: Goodwin Greek Grammar (Ginn & Co.); Liddell and Scott, Greek Lexicon (abridged or intermediate); Kiepert, Atlas Antiquus (Williams and Norgate); Smith, Smaller Classical Dictionary (Everyman Series, Dent).

1A. BEGINNERS' GREEK. First Year.

Tu., Th., Sat., at 9.....Professor Carruthers.

Text-books:—Benner and Smyth, Beginners' Greek Book (American Book Co.); Essays, Selected readings of Greek authors in translation.

1B. GREEK. First and Second Years.

Tu., Th., Sat., at 9.....Professor Woodhead.

The Martyrdom of Socrates (Doherty, Clarendon Press); Homer, Iliad vi (Leaf and Bayfield, Macmillan); Odyssey vi (Edwards, Cambridge University Press); Essays; Prose Composition, Sight Translation.

Greek 11, 12 and 13 may be taken by qualified students in the General Course. For further information consult the Chairman of the Department.

HONOURS COURSES IN GREEK

11. GREEK. Second Year.

Tu., Th., Sat., at 9. (Not offered in 1943-1943.)

Plato, Apology and Crito (Burnet, Oxford); Aeschylus, Prometheus Bound (Sikes and Willson, Macmillan); Sight Translation.

12. GREEK. Second Year.

Mon., Wed., Fri., at 9.....Professor Carruthers.

Homer, Iliad 24 (Leaf and Bayfield, Macmillan); Lucian, Menippus and Timon; Essays.

13. GREEK. Third Year.

Tu., Th., Sat., at 12.....Professor Woodhead.

Plato, Laches (Tatham, Macmillan); Euripides, Medea.

14. GREEK. Third Year.

Tu., Th., Sat., at 10.....Professor Woodhead.

Herodotus, Selections (Barbour, Heath & Co.); Aristophanes, Clouds (Merry, Clarendon Press); Plato, Selections (Forman, Macmillan); Sight Translation.

15. GREEK. Fourth Year.

Tu., Th., Sat., at 10.....Professor Woodhead.

Aeschylus, Agamemnon; Aristophanes, Birds (Merry, Oxford), Bucolici Græci (Oxford Classical Text).

16. GREEK. Fourth Year.

Mon., Wed., Fri., at 11.....Professor Woodhead.

Aristotle, Ethics (Selections); Plato, Republic (Selections); Sight Translation.

LATIN

All students taking Honours in Latin are expected to provide themselves with a grammar, a Latin-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended:— New Latin Grammar (Allen and Greenough, Ginn & Co.); Lewis, School Dictionary, or White, Junior Students' Latin-English Dictionary; Smith, Smaller Classical Dictionary (Everyman's Series, Dent), Kiepert, Atlas Antiquus (Williams and Norgate).

1. LATIN. First Year.

Mon., Wed., Fri., at 10.....

Silva Latina (J. D. Duff, Cambridge); Latin Prose Composition (Franklin & Bruce, Longmans); Translations at sight.

1A. LATIN. First Year (for more advanced students).

Mon., Wed., Fri., at 10.....Professor Carruthers.

Four Latin Authors (Kennedy, Cambridge); Latin Prose Composition (Tracy and Law, Clarke Irwin); Translation at sight.

2. LATIN. Second Year.

Tu., Th., Sat., at 12.....Professor Thompson.

A New Latin Reader, (Franklin and Bruce, Longmans); Elements of Latin Prose Composition (Treadgold, Cambridge).

Third Year Students in the General Course will take Latin 13; Fourth Year Students will take Latin 14.

HONOURS COURSES IN LATIN

11. LATIN. Second Year.

Mon., Wed., Fri., at 11.....Professor Thompson.

Catullus (Simpson, Macmillan); Sallust, Catiline.

12. LATIN. Second Year.

Mon., Wed., Fri., at 12.....(Not offered in 1943-1944.)

Livy xxii (Pyper, Clarendon Press); Virgil, Aenid iv or vi; Horace, Selected Odes (Horace, Oxford Classical Texts), Sight Translation.

13. LATIN. Third Year.

Mon., Wed., Fri., at 9.....Professor Woodhead.

Selections from Pliny's Letters (Westcott, Allyn and Bacon); Roman Elegiac Poets (Harrington, American Book Co.); Sight Translation.

14. LATIN. Third Year.

Mon., Wed., Fri., at 12.....Professor Thompson.

Virgil, Bucolics (Sidgwick), Georgics IV (Sidgwick); Juvenal, Selections (Duff, Cambridge University Press); Prose Composition.

15. LATIN. Fourth Year.

Tu., Th., Sat., at 11.....Professor Thompson.

Seneca, Selected Letters (Summers, Macmillan); Tacitus, Annals i and iv (Furneaux, Smaller Edition, Clarendon Press); Sight Translation.

16. LATIN. Fourth Year.

Tu., Th., Sat., at 9.....Professor Carruthers.

Lucretius (Selections: Sinker, Macmillan); Horace, Satires and Epistles (Rolfe, Allyn and Bacon).

ANCIENT HISTORY

The Civilization of Greece and Rome: Open to students of all years. May be taken as a half-course in the first or second term except by First Year students or students in Honours Classics.

Tu., Th., Sat., at 11.....Professor Carruthers and.....

The full course is described as History 1B. See also under Department of History.

(This course will not be offered-in the session 1943-1944.)

COMPARATIVE GRAMMAR

For Third Year Honours Students.

Tu., 2.30-4.00.....Professor Carruthers.

GRADUATE COURSES IN CLASSICS

See the Announcement of the Faculty of Graduate Studies and Research.

ECONOMICS AND POLITICAL SCIENCE

Professors.....J. C. Hemmeon, J. P. Day, B. H. Higgins, B. S. Keirstead
Associate Professor.....E. F. Beach
Assistant Professor.....J. T. Culliton*
Sessional Lecturer.....P. F. Vineberg

1. Elements of Political Economy. Second Year.
   Mon., Wed., Fri., at 11.
   Honours Section.....Professor Hemmeon
   General Section.....Professor Keirstead
2. Elements of Political Science. Second Year.
   Mon., Wed., Fri., at 12.....Professor Hemmeon
3. History of Political Theory. Third Year.
   Tu., Th., Sat., at 9.....Professor Keirstead
4. Labour Problems. Third Year.
   First term: Tu., Th., Sat., at 12.....Professor Hemmeon
5. Money and Banking. Third Year.
   Tu., Th., Sat., at 10.....Professor Day
6. Canada: Geographic, Industrial and Economic Problems. Third Year.
   First term: Tu., Th., Sat., at 3.....Professor Culliton
   Not given in 1943-44.
7. The Government of Canada. Third Year.
   Second term: Mon., Wed., Fri., at 2.....Mr. Vineberg
8. Economic Statistics. Third Year.
   Tu., Th., at 4, with laboratory hour.....Professor Beach
9. Contemporary Economic Theory. Fourth Year.
   Tu., Th., Sat., at 10.....Professor Hemmeon
10. International Trade and Foreign Exchange. Fourth Year.
    Mon., Wed., Fri., at 10.....Professor Day
11. Public Finance. Fourth Year.
    Second term: Tu., Th., Sat., at 12.....Professor Keirstead
12. Economic Distribution. Third or Fourth Year.
    Mon., Wed., Fri., at 11.....Professor Day

*On war service.

13. TRANSPORTATION. Fourth Year
First term: Tu., Th., Sat., at 12.....Professor Beach

14. GOVERNMENT REGULATION OF INDUSTRY.
Tu., Th., at 3.....Professor Higgins

15. CORPORATION FINANCE. Fourth Year.
Second term: Mon., Wed., Fri., at 12.....Mr. Vineberg

16. ECONOMIC HISTORY AND GEOGRAPHY OF NORTH AMERICA.
Tu., Th., Sat., at 9.....Professor Higgins

17. ECONOMIC HISTORY.
Tu., Th., Sat., at 9.....Dr. James

18. BUSINESS CYCLES.
First term: Tu., Th., at 4 to 5.30.....Professor Higgins

Economics 2 is a prerequisite to Economics 3 and 7. Economics 1 is a prerequisite to all other courses.

HONOURS COURSES

Students taking the full Honours in Economics and Political Science take, in their Second Year, courses 1 and 2, together with three other courses approved by the Department; in their Third Year three full courses (or their equivalent), together with one approved course from another department, and in their Fourth Year three full courses (or their equivalent) together with one approved course from another department.

Students taking half Honours in Economics or half Honours in Policical Science (see page 254) shall take Economics 1 and 2 and four full courses or their equivalent, approved by the Department.

Students in the Department of Economics and Political Science are expected to spend a considerable proportion of their time in the preparation of class reports, essays, etc., in addition to the lectures and ordinary reading.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

EDUCATION

Professors.....{JOHN HUGHES / SINCLAIR LAIRD
Assistant Professor.....A. B. CURRIE
Sessional Lecturer.....A. ROBERT GEORGE

DEGREE COURSES

1. GENERAL PRINCIPLES OF EDUCATION. Third, Fourth or Fifth Years. Tu., Thu., Fri., at 4.

2. METHOD AND SCHOOL ORGANIZATION. Fifth Year. Mon., Wed., 4-5.30.

PROFESSIONAL (METHOD) COURSES

METHODS OF TEACHING SPECIAL SUBJECTS (hours to be arranged).

Candidates for the High School Diploma are advised to select at least two of the following options: English, Classics, Social Science, Mathematics, Science, Geography, in addition to the three compulsory special courses in methods of teaching French and two of the following:—Music, Drawing, Geography. A course is also given in Civic, Moral and Religious Education.

THE TRAINING OF TEACHERS

THE HIGH SCHOOL DIPLOMA

This diploma is valid only in the Protestant Schools of the Province of Quebec. Only those students who may legally teach in Protestant schools should attempt to qualify for this diploma.

Each candidate must (a) make application upon the authorized forms, (b) be a British subject or satisfy the Central Board that he has begun the necessary proceedings to become such, (c) submit a physician's certificate to show that he is in good health and free from physical defects likely to interfere with his usefulness as a teacher, (d) be a graduate of an approved University, with degree courses, or their equivalents approved by the Central Board of Examiners, as follows:—

(*a*) *Academic.* Courses for two years in the following subjects:—

Courses of the First Year—English, French and any three of the following: History, Mathematics, Science and Latin.

Courses of the Second Year—English, French and any three of the following: History, Mathematics, Latin, Science, a second Science.

It is provided, however, (i) that a canadidate may omit in a succeeding year any three of these subjects, except English, in which he has

taken at least 60% in a previous year, (ii) that a candidate who is beginning an Honours course in the second year is exempt from the foregoing second year requirements.

FURTHER ACADEMIC STUDY.—The post-graduation year of training provides opportunities for further academic study, and completion of any academic requirements remaining unfulfilled. (See below, "Credit for M.A. Degree".)

(*b*) *Professional.*

COMPULSORY POST-GRADUATE YEAR OF PROFESSIONAL TRAINING.

Every student who desires to proceed to the Diploma will be required to take a post-graduate year of training. The course begins early in September and ends in June.

Candidates for this course are advised to consult the Professor of Education for further particulars; and are requested to do this, wherever practicable, before April 15th, to make provisional arrangements.

Candidates must fulfil the following requirements:—

(1) The successful completion of Degree courses 1 and 2 in the Department of Education, either before or after graduation.

(2) Successful completion of three special courses in methods of teaching French, together with two of the following: Music, Drawing, Geography. These courses are held in the Montreal High School and elsewhere on various afternoons throughout the session.

(3) Successful completion of at least fifty half-days of practice teaching and criticism lessons under expert supervision (unless the candidate holds an intermediate diploma or shows an equivalent in successful teaching experience which would be accepted by the Central Board of Examiners).

The course in Practice Teaching is at present divided into three parts. The first part is taken in September preceding the Fifth Year and is carried on in the primary and/or high schools of Greater Montreal. The second part of the course is taken on Thursdays from October 15th to March 31st and is carried on in the junior and senior high schools. The third part of the course is taken in May and June after the examinations and is carried on in the primary and/or high schools. At present candidates are enabled to take advantage of at least seventy-five half-days of Practice Teaching.

REGULATIONS OF THE PROTESTANT COMMITTEE
(1940 EDITION)

The Regulations governing the award of the High School Diploma require that candidates must make application upon the authorized form (which may be obtained at the Registrar's Office, McGill University) to Dr. W. P. Percival, Secretary, Protestant Central Board of Examiners, Department of Education, Quebec, P.Q., *on or before the 20th day of July before entering upon the year of training.*

For a complete and revised edition of the Regulations of the Protestant Committee, students are referred to the Education Act of the Province of Quebec (compiled by Dr. W. P. Percival, 1940). Students will note that high school certificates shall be interim when issued, and shall be exchanged for permanent diplomas after two years of successful teaching as certified by an inspector. Only those teachers shall be eligible to act as Principals of High Schools who possess permanent High School Diplomas and have attended successfully at least one session at an approved summer school after receiving their interim certificates.

CREDIT FOR M.A. DEGREE

The work done in the year of training for the High School Diploma, if of sufficiently high standard, is helpful to candidates desiring to proceed to the M.A. degree in Education. (See the Announcement of the Faculty of Graduate Studies and Research.)

ELEMENTARY, INTERMEDIATE, AND KINDERGARTEN DIPLOMAS

The training for these diplomas is given by Macdonald College. (See Macdonald College Announcement).

COURSES FOR TEACHERS OF SPECIAL SUBJECTS

FRENCH. A summer school for teachers of French leading to a Specialist Diploma recognized by the Provincial Department of Education.

KINDERGARTEN ASSISTANTS. A two-session course held in Montreal and leading to a Kindergarten Assistant's Diploma, according to the regulations of the Protestant Committee of the Department of Education. This Diploma is accepted for entrance to the Kindergarten class, by Macdonald College. (See Macdonald College Announcement.)

PHYSICAL EDUCATION. (This course is given under the Department of Physical Education. See Announcement of the School of Physical Education).

M.A. IN EDUCATION

For details of the M.A. in Education, see the Announcement of the Faculty of Graduate Studies and Research.

ENGLISH

Professors	CYRUS MACMILLAN HAROLD G. FILES
Associate Professors	A. S. NOAD* T. F. M. NEWTON*
Lecturers	MARY MACKENZIE ELMER HALL* JOHN DANDO GERTRUDE MASON and ASSISTANTS

1. ENGLISH (LITERATURE AND COMPOSITION)
Sat., at 12. Professor Newton, Miss Mackenzie, Mr. Dando and Assistants.

*On war service.

Section and weekly conferences hours to be arranged.

This course must be taken by students who have failed in English 2 the previous session.

2. ENGLISH (LITERATURE AND COMPOSITION)

General Course.

Tu., Th., and Sat. at 10.....Professors Macmillan and Newton, Mr. Dando, and Assistants.

Weekly conferences hours to be arranged.

ADVANCED COURSES.

Advanced students will be assigned to special sections in which advanced work will be prescribed.

3. ENGLISH COMPOSITION.

Half course. May be taken as a full course by arrangement. An advanced course open to a limited number of undergraduate students who have completed English 2. Application for permission to take this course should be made at the beginning of the session. Registration is limited.

Hours to be arranged.....Professor Files.

4 ENGLISH LITERATURE IN THE NINETEENTH CENTURY.

Tu., Th., Sat., at 11.....Mr. Dando and Assistants.

6. SHAKSPERE (SIX PLAYS.) Half course. First term.

Mon., Wed., Fri., at 10.....Professor Macmillan.

7. ENGLISH LITERATURE IN THE EIGHTEENTH CENTURY.

Mon., Wed., Fri., at 12.....Professor Files
(Not given in 1943-1944. Given in 1944-1945).

8. THE LITERATURE AND CULTURE OF THE RENAISSANCE.

Tu., Th., Sat., at 10.....Professor Noad.
(Not given in 1943-1944.)

9(a) ENGLISH POETRY FROM 1798 to 1850. First term.

9(b) ENGLISH POETRY FROM 1850 TO THE PRESENT TIME. Second term.

Mon., Wed., Fri., at 11.....Professors Macmillan and Noad, and Assistants.

(Not given in 1943-1944.)

9a includes Romantic and early Victorian poetry. 9b includes later Victorian and contemporary poetry.

10. The English Novel, from Richardson to the present time, with some reference to foreign work and to related literary types.

Tu., Th., Sat., at 11 ..... Professor Files.

11(a) English Literature, from 1450 to the Death of Sidney. First term.

11(b) English Literature (exclusive of Shakspere) from 1586 to 1611. Second term.

Tu., Th., Sat., at 10 ..... Professors Noad, Macmillan and Newton.

(Not given in 1943-1944).

12. Old English; English Language and Literature up to the Norman Conquest.

Mon., Wed., Fri., at 2 ..... Miss Mason.

13. Technique of the Drama.

Mon., Wed., Fri. at 12.00; one laboratory period a week on Mon., Tues., Wed., Thurs., or Fri., 3.30 to 5.30 p.m. as convenient to students.

Mr. Dando and other members of the Department.

Courses 3, 6, 7, 11 and 19 are recommended to students taking this course.

14. Chaucer.

First term; Tu., Th., Sat., at 12 ..... Professor Newton.
(Not given in 1943-1944.)

15. American and Canadian Literature.

Second term: Mon., Wed., Fri., at 11 ..... Professors Files and Macmillan.

16. Comparative Literature.

The influence of English Literature upon the continent of Europe in the 18th and 19th centuries.

Tu., Th., Sat., at 9 ..... Professor Noad, Miss Francès.
(Not given in 1943-1944.)

17. Comparative Literature.

The literary influence of the Continent upon England since the Renaissance.

Tu., Th., Sat., at 9 ..... Miss Francès.

19(a) ENGLISH LITERATURE FROM 1611 TO 1660. First term.

19(b) ENGLISH LITERATURE OF THE RESTORATION (1660-1700). Second term.

Mon., Wed., Fri., at 12.....Miss Mason.

20. EARLY ENGLISH: (HALF COURSE) ENGLISH LITERATURE FROM 1200 TO 1450.

Second term; Tu., Thu., Sat., at 12.....Miss Mason.

Open only to students who have taken Course 12, or its equivalent.

21. POLITICAL SATIRE SINCE THE RENAISSANCE.

First term; Mon., Wed., Fri., at 11.....Professor Macmillan.

22. AN ADVANCED COURSE IN THE TECHNIQUE OF THE DRAMA.

Prerequisite:

English 13 or its equivalent.

The attendance in this course is limited to twenty. Application for admission should be made at the beginning of the session. Mon., Wed., Fri., at 12. Two laboratory periods a week, selected from Mon., Tues., Wed., Th., Fri., 3.30 to 5.30 p.m.

Mr. Dando and other members of the Department.

(Not given in 1943-1944).

23. STUDIES IN LITERATURE SINCE 1900. Contemporary authors English and American. Open only to those who have taken English 10 or have received the permission of the Instructor. The registration is limited.

Tu., Th., Sat., at 11.....Professor Files.

(Not given in 1943-1944.

24. HISPANIC CONTACTS WITH EUROPEAN LITERATURE. A study of relations between the literature of Spain and those of other countries, particularly England and France.

Mon., Wed., Fri., at 3.....

(Not given in 1943-1944.)

NOTE

Courses 4, 6, 7, 13, 15, 19, and 21 are open to students in the Second Year. Registration in 3, 6, 13, 21, 22 and 23 is limited.

Honours Courses

Second Year:—Two courses selected from 4, 6, 7, 8, 13, 15, 19a, 19b.

Third Year:—Four courses.

Fourth Year:—Four courses. A course in a cognate subject may be taken, with the permission of the Department.

Compulsory courses for Honours are 12, and two full courses from the following—6, 7, 10, 14, 19a, 19b, 21 and 23.

English Requirements for the Honours Courses in English and Latin, English and French, and English and German

Second Year:—Consult the Chairman of the Department.

Third Year:—Two courses, chosen with the approval of the Department.

Fourth Year:—Two courses, chosen with the approval of the Department.

Course 12 and one course selected from 6, 7, 10, 14, 16, 17, 19a, 19b, 21 and 23 are compulsory.

English Requirements for Honours in English and Other Subjects

Second Year:—Consult the Chairman of the Department.

Third Year:—Two courses chosen with the approval of the Department.

Fourth Year:—Two courses chosen with the approval of the Department.

One full course selected from 6, 10, 12, 14 and 23 is compulsory in either the Third or the Fourth Year.

Final General Examination:—Every candidate for Honours in English or English and another subject, must pass, near the close of his last year, a special general examination, either oral or written, conducted by a committee of the Department.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

FRENCH

Professor.....

Associate Professor.....J. L. DARBELNET

Assistant Professors.....{MME. TOUREN FURNESS
L. D'HAUTESERVE*

Sessional Lecturers.....{MME. P. L. LARIVIÈRE
MLLE. MADELEINE BARATTE

Part-time Assistants.....{MLLE. MADELEINE FRANCÈS
MLLE. MADELEINE BODIER

Every lecture, even in the First Year, is given in French.

Both oral and written examinations are held on each year's work.

The oral examination (in both General and Honours courses) counts for 50 per cent.

A special section in the First Year is provided if necessary for the students who undertake the courses in French with very little knowledge of the spoken language, but it is not possible to acquire fluency without extra work. Students who are deficient in this respect, and especially those taking French as a continuation subject, are therefore strongly advised to follow the French Summer School course either before or after their First Year.

GENERAL COURSES

1. GENERAL SURVEY OF LITERATURE IN THE XVIIITH AND XIXTH CENTURIES; FRENCH COMPOSITION. First Year.

Mon., Wed., Fri., at 9 (Section A), at 11 (Section B), at 2 (Section C)
Professor Furness,
Mme. Larivière, Mlle.....
Mlle. Francès and Mlle. Bodier.

Texts: Sammartino and Guastalla, A Survey of French Literature (Longmans); Coindreau & Lowe, An Alternative French Composition Book (Holt); Saint Exupéry, Vol de nuit (Harper); Skinner, Quinze conteurs (Harcourt, Brace & Co.).

Additional reading for the Advanced Course: Jules Romains, Knock (The Century Co.).

2. GENERAL SURVEY OF FRENCH LITERATURE FROM THE MIDDLE AGES THROUGH THE XVITH AND XVIITH CENTURIES; FRENCH COMPOSITION. Second Year.

Section A. Tu., Th., Sat., at 9. Section B. Tu., Th., Sat., at 11.
Professor Furness and Mlle. .....

Texts:—Sammartino & Guastalla, A Survey of French Literature (Longmans); Coindreau & Lowe, An Alternative French Composition Book (Holt); Molière, Le Bourgeois gentilhomme (Gage); Mérimée, Colomba (Heath); Les Grands Savants Français (Crofts); L. Hémon, Maria Chapdelaine (Macmillan).

*On war service.

3. FRENCH LITERATURE OF THE XVIITH CENTURY. Third Year.

Mon., Wed., Fri., at 11.....

Texts:—A. Schinz, Seventeenth Century French Readings (Holt); Seronde & Peyre, Nine Classic French Plays (Heath).

Readings:—Racine, Andromaque; Molière, Le médecin malgré lui; Bossuet, Oraison funèbre d'Henriette d'Angleterre; Mme. de Sévigné, Lettres choisies; La Fontaine, Fables choisies; Mme. de La Fayette, La Princesse de Clèves; St. Simon, Mémoires.

4. FRENCH LITERATURE OF THE XVIIITH CENTURY. Third Year.

Mon., Wed., Fri., at 10.....Mme. Larivière.

Texts:—A. Schinz, Eighteenth Century French Readings (Holt); Marivaux, Le Jeu de l'amour et du hasard (Healh); Prévost, Manon Lescaut (Crofts); Voltaire, Candide (Holt); Beaumarchais, Le Barbier de Séville (Holt).

Readings: Lesage, Gil Blas (Extracts); Montesquieu, Les Lettres persanes; Voltaire, Les Lettres philosophiques; Diderot, Le Neveu de Rameau; Beaumarchais, Le Mariage de Figaro.

5. FRENCH CIVILIZATION—GEOGRAPHICAL OUTLINE—POLITICAL, SOCIAL, AND ECONOMIC ASPECTS OF FRENCH LIFE. Third and Fourth Years.

Mon., Wed., Fri., at 12.....Professor Darbelnet.

Text:—Morize and Rice, Introduction to France (Macmillan).

7. LITERATURE AND SOCIAL IDEAS IN THE 19TH CENTURY. Third and Fourth Years.

Tu., Th., Sat., at 11.....

(Given in 1944-45).

8. FRENCH LITERATURE OF THE XIXTH AND XXTH CENTURIES. Fourth Year.

Mon., Wed., Fri., at 10.....Professors Furness and Darbelnet.

Texts:—Searles, Seven French Plays (Holt); Henning, Representative French Lyrics of the Nineteenth Century (Ginn); Balzac, Le Père Goriot (Nelson); P. Bourget, Le Disciple (Nelson).

Readings:—Flaubert, Madame Bovary; G. de Maupassant, Contes choisis; A. Daudet, Le Petit Chose; A. France, Le Livre de mon ami.

HONOURS COURSES

11. INTRODUCTORY HONOURS COURSE. Second Year.

(a) The French comedy as illustrated by Molière, Beaumarchais and Musset.

(b) Free composition, written and oral on literary subjects. Translation into French and into English.

Tues., Thurs., Sat., at 10.... Professors Furness and Darbelnet.

12. History of the French Language. Third and Fourth Years.
Sat., at 10.....
(Given in 1943-1944.)

Reference Books:—Darmsteter, Cours de Grammaire historique, Parts I, II; F. Brunot, Histoire de la langue française; Holmes & Schutz. A History of the French Language (Farrar & Rinehart, Inc., N.Y.)

13. French Stylistics. Third and Fourth Years.
Tu., Th., at 11..... Professor Darbelnet.

Thought and Expression—Intellectual and affective elements of speech with special reference to snyonymy. Social and psychological background of words and phrases. Levels of speech.
(Given in 1943-1944.)

14. History of the French Novel. Third and Fourth Years.
Tu., Th., Sat., at 12.....Professor Darbelnet.
(Given in 1944-45).

15. History of French Lyrical Poetry. Third and Fourth Years.
Tu., Th., at 10.....Mme. Larivière.
(Given in 1943-1944.)

16. Survey of Contemporary French Literature. Third and Fourth Years.
Tu., Th., Sat., at 10.....Mme. Larivière.
(Given in 1944-45.)

17. Comparative Literature (English 17): The Literary Influence of the Continent Upon England Since the Renaissance.
Tu., Th., Sat., at 9.....

Honours Courses in French

Honours in French begin in Second Year. Only exceptionally will students be permitted to take Honours Courses in their third year without having previously passed 2 and 11.

All students taking Honours in French are required to take in their third or fourth years French 12, History of the French Language.

Prerequisite:—1.

Second Year:—2 and 11.

Third Year:—Three full courses (or the equivalent) including at least one full honours course.

Fourth Year:—Three full courses (or the equivalent) including at least one full honours course, and course 12 if not previously taken.

A tutorial class meeting once a week will be arranged for Third and Fourth year students who, electing to take full honours in French desire to take two full Honours courses.

Combined Honours Course

Prerequisite:—1.
Second Year:—2 and 11.
Third Year:—Two full courses or their equivalent.
Fourth Year:—Two full courses including Course 12, if not previously taken.

M.A. Courses

See the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF GENETICS

Professor.....C. Leonard Huskins
Lecturer.....Arthur G. Steinberg
Lecturer.....H. G. F. Sander

Elementary lectures in Genetics are included in Botany 1A and Zoology 1B.

1. Genetics and Evolution.

Principles of Genetics; Human Heredity; Evolution.
Mon., Wed., Fri. at 9. 1 laboratory hour to be arranged.
Prerequisite:—Elementary Botany or Zoology.
In the second term advanced students will be assigned to special sections.....Professor Huskins, Dr. Sander, Dr. Steinberg.

Students who have not obtained at least second class standing in Genetics 1 will be admitted to Genetics 2, 4 or 5 only under special circumstances.

2. Cytology.

The protoplasmic organization of the animal and plant cell.
2nd term. 3 hours to be arranged.
Prerequisite:—Genetics 1, but may be taken concurrently at the discretion of the instructors.....Professor Huskins and Dr. Sander.

3. Cytological Technique.

2nd Term:—6 hours to be arranged.
Prerequisite:—Zoology 5, unless special exemption is obtained.
Genetics 2 must be taken concurrently.....Dr. Sander.

4. Biometry.

Applications of statistics to problems in Biology.
1st term: Mon., Wed., Fri., at 10.....Dr. Steinberg.
See also Zoology 3 (Embryology).

5. Cytogenetics and the Mechanics of Evolution.

Studies on the physical basis of heredity and on the role of genetic and other factors in evolution.
1st term: Mon., Wed., Fri., at 11.
Prerequisite:—Genetics 1.....Professor Huskins.

6. Developmental Genetics.

Studies on the role of the genes in development.
2nd term: Mon., Wed., Fri., at 11.
Prerequisites:—Genetics 1 and Zoology 3 (Embryology). The latter may be taken concurrently.....Dr. Steinberg.

Honours Course

Students who contemplate graduate studies and research in Genetics or Cytology are advised to take the Honours Course in the biological department in which their chief interest lies.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

GEOLOGICAL SCIENCES

Professors..... John J. O'Neill.
R. P. D. Graham.
T. H. Clark.

Associate Professors..... J. E. Gill.
F. F. Osborne.

Demonstrator.....

1. General Geology (Eng. 141).

In addition to the lectures there are excursions on Saturday mornings for five or six weeks after the term opens; students attending these are excused from any classes which conflict with the excursions. Two hours laboratory; sections will be announced at first meeting.

Mon. and Fri. at 9.....Professor Clark.

Text-books: — Longwell, Knopf, Flint, Schuchert, and Dunbar. "Outlines of Geology" 1941 (Wiley).

2. Physiography and Natural Resources of Canada.

First term: Tu., and Th. at 10, and one laboratory period Th., 2 to 4.
Prerequisite:—1.....Professor Gill.

3. Stratigraphy.

First term: Mon., Fri., at 11; one hour laboratory, and two full days of field work during October. One half course.
Prerequisite:—1.....Professor Clark.

4. Geology of Canada (Eng. 149).

Second term: Tu. and Th. at 10; Lab. Th. 2-5.
Prerequisite:—1.....Professor Gill.

5. Mineralogy (Eng. 142).

Tu. and Th., at 9.....Professor Graham.

6. Determinative Mineralogy (Eng. 143).

Two laboratory periods during the second term; Wed., Fri., 2 to 5.
Professor Graham.

7. Structural and Field Geology (Eng. 147).

Lectures, laboratory, and field mapping.
First term: Tu. and Th., at 9, and Fri. 2-5.....Professor Gill.
Prerequisite:—1, 5, 6.

8. ORE DEPOSITS (Eng. 148).

Second term: Tu., 10, Wed. 10-12, and Th., at 11.
Prerequisite:—7 and 10.....Professor O'Neill.
Text-book:—Economic Geology—Emmons (McGraw-Hill, 1940, Edn.)

9. OPTICAL MINERALOGY AND CRYSTALLOGRAPHY.

One lecture Mon., at 10 and three hours laboratory period; first term.....Professor Graham.
Prerequisite:—1, 5, 6.

10. PETROLOGY (Eng. 146).

Second term: Tu. and Th., at 9; Fri., 2-5.....Professor Osborne.
Prerequisite:—1, 5, 6.

12. PALÆONTOLOGY.

Second term: Mon., Fri., at 11; laboratory, Wed., 2-5, and one full day's field work in April. (One half course).
Prerequisite:—1 or Zoology 1.....Professor Clark.

13. SCIENCE IN ECONOMIC LIFE (Pt. 1):—For B.A. and B. Com. students.
Mon., Wed., Fri., at 11.....Professor Osborne.

HONOURS COURSES

Second Year:—Geology 1, 5, 6; 1 course in Chemistry and 2 other courses to be arranged.

Third Year:—Geology 7, 10, and either 2 and 4, or 3 and 12; Chemistry 4; Physics 12; other course or courses to be arranged.

Fourth Year:—Geology 8 and 9; and either 2 and 4 or 3 and 12; and additional courses as advised.

NOTE:—It is desirable that courses in surveying, mapping, and draughting be included in the Honours course in most cases.

GERMAN

Associate Professor.....W. L. GRAFF
Lecturers.....MISS B. MEYER

Courses 1 to 7 inclusive are carefully graded and closely interrelated. Hence, their choice by any student must take account of his knowledge of German and is subject to approval by the Department.

1. GERMAN LANGUAGE. (Beginners' B.A. Course).
Tu., Th., Sat., at 9.....Miss Meyer.
Texts:—Schinnerer, Beginning German (Macmillan, Toronto); P. Hagboldt, Anekdoten und Erzählugen (Heath & Co.); G. Wiens: Bilderlesebuch für Anfänger (Holt).

Students intending to proceed to Course 5 from the above must have obtained a First Class.

Those intending to proceed to Course 7 must have obtained a First Class and are required to study during the summer the following texts:—Viebig, C., Der Gefangene (Crofts); Kästner, Emil und die Detektive (Holt & Co.); Schrakamp, Ernstes and Heiteres (A.B. Co.).

2. GERMAN LANGUAGE.

Tu., Th., Sat., at 10.....Professor Graff.

Texts:—Chiles, German Composition and Conversation (Ginn); H. Alexander, Achtung! Achtung! Hier ist der Kleine Muck! (Appleton, N.Y.); W. Diamond and C. B. Schomaker, Lust und Leid (Holt Co.); F. Bruns, A Book of German Lyrics (Heath Co.);

Private Reading:—P. Hagboldt, Eulenspiegel und Munchhausen.

3. GERMAN LANGUAGE. (Beginners' B.Sc. Course).

Tu., Th., Sat., at 10 or 11.....Miss Meyer.

Texts:—Schinnerer, Beginning German (Macmillan, Toronto); P. Hagboldt, Anekdoten und Erzählungen (Heath & Co.); Fiedler and Sandbach. A First German Course for Science Students (Oxf. Univ. Press).

Students intending to proceed from Course 3 to an Arts Course must have obtained a first or high second class and are required to read during the summer P. Olman, Der Onkel aus Amerika (Prentice-Hall).

4. GERMAN SCIENCE READING COURSE. Second Year.

Mon., at 5.....Professor Graff.

For students who have matriculated in this language or have taken it in the First Year.

Texts:—Curts, Readings in Scientific and Technical German (Holt & Co.).

5. GERMAN LANGUAGE.

Mon., Wed., Fri., at 11.....Miss Meyer.

Texts:—Osthaus & Biermann: German Prose Composition (American Book Co.); P. Heyse, L'Arrabbiata (Heath, N.Y.); Schiller, Maria Stuart (Holt); Porterfield, Modern German Stories (Heath).

PRIVATE READINGS:—

Riehl, Der Fluch der Schönheit (Heath); Schnitzler, Der Blinde Geronimo und sein Bruder (Heath & Co.).

7. GERMAN LANGUAGE AND LITERATURE.

Mon., Wed., Fri., at 12.....Professor Graff.

Texts:—Klarmann and Gorr, German Readings and Composition (Harper and Brothers); Goethe, Egmont (Holt); Lessing, Nathan der Weise (A.B. Co.).

Private Readings:—

Th. Mann, Tonio Kröger (Crofts & Co.); Grillparzer, Der arme Spielmann (Heath & Co.).

No student may proceed from German 1 to German 7 unless he has completed the summer work as given under course 1.

German Conversation:—Students of the Second Year intending to continue German in the Third Year must attend a class in Oral German (one hour a week) until in the Professor's opinion they have reached a satisfactory standard.

N.B.—In order to be admitted to the following courses a student must know German well enough to understand lectures delivered in German and express himself in German with some degree of fluency and correctness.

8. German Literature in the Eighteenth Century.

Mon., Wed., Fri., at 9.....Miss Meyer.

Texts:—Lessing, Emilia Galotti (Ginn); Goethe, Iphigenie; Schiller, Wallenstein; Stroebe & Whitney; Geschichte der Deutschen Literatur, Whitney & Stroebe; Exercises in German Syntax (Holt) and Composition for Advanced Students (Holt).

Private Readings:—Lessing, Minna von Barnhelm; Goethe, Urfaust; Schiller, Kabale und Liebe.

9. German Literature in the Nineteenth Century.

Mon., Wed., Fri., at 9.....Professor Graff.

The important literary movements and writers of the 19th century are studied and discussed. Collateral readings.

10. From Naturalism to Expressionism. Professor Graff.

Three hours to be arranged. Prerequisites: German 8 and 9.

11. Middle High German Language and Literature.

Two hours, to be arranged.....Professor Graff. (Given in 1944-45).

Texts:—A. Senn, An Introduction to Middle High German (Norton & Co., N.Y.).

12. Aus der Geschichte der Deutcshen Lyrik von Goethe bis in die Neuzeit.

One hour.....Professor Graff.

Text:—F. Burns, Die Lese der deutschen Lyrik (F. S. Crofts & Co.).

13. Geschichte des deutschen Trauerspiels.

Two hours, to be arranged. (Given in 1943-44).....Professor Graff.

Honours Courses

The selection of Honours Courses in German must be approved by the Department.

Students honouring in the Second Year must choose two full courses from the following: German 5, 7, 8.

In the Third and Fourth Years one full course must consist of either German 11 and 12 or German 12 and 13. The other full course must be chosen from German 8, 9 or 10.

Students may begin Honours in German in the Third Year, if in the opinion of the Department they are qualified to do so.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

HISTORY

Associate Professor.....E. R. Adair
Assistant Professors.....C. C. Bayley, J. I. Cooper
Sessional Lecturer.....W. S. Reid

Courses for General Students

1A. European Civilization and its Expansion Overseas Since the End of the Roman Empire. First Year.
Tu., Th., Sat., at 9.....Professors Bayley and Cooper.

or

1B. Ancient History. First Year.
Tu., Th., Sat., at 11*.....Professor Carruthers and.....

Students in History desiring to take course 1B should read the notes below on Continuation and Honours Courses in History.

2. General History of North and South America. Second Year.
Mon., Wed., Fri., at 9.....Professor Adair.

3. History of the British Empire. Second Year.
Tu., Th., Sat., at 10.....Professor Cooper.

With the consent of the Department, this course may be taken by Third Year students.

*See also under Department of Classics.

4. History of Canada. Third Year.
Tu., Th., Sat., at 9.....Professor Cooper.
With the consent of the Department, this course may be taken by Fourth Year students.

5. General English History with special emphasis on the Modern Period. Fourth Year.
Mon., Wed., Fri., at 11.....Dr. Reid.
With the consent of the Department, this course may be taken by Third Year students.

6. History of Europe, 1789-1939. Fourth Year.
Mon., Wed., Fri., at 12.....Dr. Reid.
With the consent of the Department, this course may be taken by Third Year students.

Courses Specially for Honours Students

Prerequisite:—History 1.

7. Mediæval Life and Institutions. Second Year.
Tu., Th., Sat., at 10.....Professor Bayley.

8. History of Modern Europe to 1789: Third Year.
Mon., Wed., Fri., at 12.....Professor Adair.

9. The Government of England, the United States and Canada: A Comparative Survey. Fourth Year.
Tu., Th., Sat., at 11.....Professor Bayley.

10. History of Economic and Social Conditions, with Special Reference to England. Fourth Year.
Mon., Wed., Fri., at 10 *or* 11, as arranged.....Professor Adair.

Additional Courses

11. Canada and the United States: Their Diplomatic and Economic Relations from Colonial Times to the Present.

11A. From Colonial Times to 1861.
Tu., Th., Sat., at 11. First Term.....Professor Cooper.

11B. From 1861 to the Present.
Tu., Th., Sat., at 11. Second term.....Professor Cooper.

Open to students in Arts, Science and Commerce of the Third and Fourth Years. 11A and 11B may each be taken as a half course, but unless 11A has already been taken, a student who desires to take 11B must first obtain the consent of the Department to do so.

SPECIAL SUBJECTS:—

England in the Age of Wyclif.

The Reign of Charles I.

William Pitt and the Conquest of Canada.

England under the Victorian Compromise (1837-1867).

Social Reconstruction in Pre-War England (1895-1914).

A Selected Topic in Canadian History 1867-1896.

A Period or Aspect of Ancient History.*

NOTE.—A choice of one of these special subjects for continuous study by Honours students during their Third and Fourth Years is made in consultation with the Department. Students will be expected to acquire a general knowledge of the subject selected and to make a more intensive study of one of its aspects.

General students taking History as a continuation subject may, if they so desire, take course 1B (Ancient History) in their first year. If they do so, they must take History 1A in their second year, and either History 2 or History 3 in their Third Year.

Unless the special consent of the department is obtained, History 1A must be taken as a prerequisite to History 2 or History 3 for all students taking History as a continuation or Honours subject.

Before being admitted to Honours standing in History, students are expected to have a knowledge of French and of Latin. The latter requirement may be satisfied by a First Year college course following matriculation Latin, or, at the discretion of the Department, by high ranking in Latin in a matriculation examination.

Students taking Honours in History will take the following courses.

First Year: History 1A, and four courses in other subjects.

Second Year: History 2 and 7.

Three approved courses in other subjects, at least one of which must be a foreign language.

Third Year: History 4 and 8.

An approved course in Philosophy, Economics, Sociology, Latin, French, *or* German. One of the special subjects in History.

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*For courses in Ancient History, see under the Department of Classics.

Fourth Year: History 6, 9, and 10.
Continuation of the special subject begun in the Third Year.

Students taking Honours in History and another subject will take the following courses in History.

Second Year: History 2 and 7.

Third Year: History 4 and 8.

Fourth Year: History 9, and either 6 or 10.

NOTE.—In addition to the examination on the subjects taken in the last year, Fourth Year Honours students have a general examination paper on the history studied by them in their four years.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

LAW

Professor.....P. E. CORBETT

THIRD AND FOURTH YEARS

JURISPRUDENCE.—An enquiry into the nature and function of Law, its relation to society and the state, and a review of the principal institutions of a state.

Three hours a week (to be arranged).....Professor Corbett.

INTERNATIONAL LAW.—An enquiry into the origin and nature of International Law, its scope and authority, and its history and contemporary development.

Three hours a week (to be arranged).....Professor Corbett.

These courses are open to third and fourth year students in the Faculty of Arts and Science.

MATHEMATICS

Professors.....C. T. SULLIVAN, N. B. MACLEAN, A. H. S. GILLSON*, W. L. G. WILLIAMS

Associate Professors.....H. TATE, G. PALL

Assistant Professor.....W. B. ROSS

Sessional Lecturer.....E. ROSENTHALL

1. MATHEMATICS. (For First Year students).

Geometry and Trigonometry. Mon., Wed., Fri., at 9 or 11, first term
Algebra. Mon., Wed., Fri., at 9 or 11, second term.

*On war service.

Five ordinary sections: Professors MacLean, Tate, Pall, Dr. Ross, Mr. Rosenthall.

One advanced section, Mon., Wed., Fri., at 9...Professor Williams.

One section for Pre-Engineers who have had Intermediate mathematics.....Mr. Rosenthall.

One section for Pre-Engineers who have not had Intermediate mathematics.....Professor MacLean.

Text-books:—Hall and Knight, Elementary Trigonometry, revised Canadian edition; Carslaw, Plane Trigonometry, Hall and Stevens, School Geometry, Parts I-VI; H. Tate, Intermediate Algebra.

First or Second class standing in course 1 is necessary for course 3 or 4.

A knowledge of courses 3 and 4 is a prerequisite for courses 6 and 7.

Ordinary students taking Mathematics as a continuation subject are advised to take the following courses: Mathematics 2 or 15 in the second year, Mathematics 16 or 3 in the third year, and Mathematics 17 or 4 or 8 in the fourth year.

2. ELEMENTARY ANALYSIS. (For Second Year students).
Mon., Wed., Fri., at 10.....Mr. Rosenthall.

3. CALCULUS. (For Second Year and other qualified students).
Mon., Wed., Fri., at 10.....Professor Sullivan.
Text-book:—Lamb, Infinitesimal Calculus.

4. ALGEBRA AND ANALYTICAL GEOMETRY. (For Second Year and other qualified students).
Tu., Th., Sat., at 12.....Dr. Ross.
Text-book:—C. Smith, Conic Sections.

5. SPHERICAL TRIGONOMETRY AND ASTRONOMY. (For Second Year and other qualified students.)
Spherical Trigonometry: One hour, first term....Professor Sullivan.
Astronomy: Two hours, second term.....Dr. Ross.
Text-books:—Murray, Spherical Trigonometry; Barlow and Bryan, Astronomy (London University Tutorial Press); Moulton's Astronomy.

This course can be combined with Physics 4 to form a three-hour course for the year.

6. ANALYTICAL GEOMETRY OF THREE DIMENSIONS. (For Third Year and other qualified students).
Three hours.....Professor Sullivan.
Text-books:—C. Smith's Solid Geometry: R. T. J. Bell, Geometry of Three Dimensions.

7. Infinitesimal Calculus and Differential Equations.
(For Third Year and other qualified students).

Three hours.....Professor Pall.

Text-books:—Lamb, Infinitesimal Calculus; Osgood, Advanced Calculus; Foysyth, Differential Equations (Macmillan); Piaggio, Differential Equations (Bell).

8. Advanced Algebra and Finite Differences.
(For Third Year and other qualified students).

Three hours (Tu., Th., Sat., at 12).....Professor Tate.

Text-books:—Barnard and Child, Higher Algebra.

9. Introduction to the Theory of Numbers. (For Fourth Year and other qualified students).

Three hours.....Professor Pall.

Text-books:—Uspensky and Heaslet, Number Theory.

10. Introduction to the Theory of Functions of a Real Variable. (For Fourth Year and other qualified students).

Three hours.....Mr. Rosenthall.

Text-books:—Hardy, Course in Pure Mathematics (Camb. Univ. Press); Carslaw, Fournier's Series and Integrals.

11. Introduction to the Theory of Functions of a Complex Variable. (For Fourth Year and other qualified students).

Three hours.....Professor Sullivan.

Text-books:—MacRobert, Functions of a Complex Variable; Whittaker and Watson, Modern Analysis; Appell and Lacour, Fonctions Elliptiques (Gauthier-Villars).

15. Elementary Co-ordinate Geometry.

Mon., Wed., Fri., at 12.....Professor Tate.

16. Elementary Calculus.

Mon., Wed., Fri., at 10.....Professor Tate.

17. Theory of Interest and Life Contingencies.

Tu., Th., Sat., at 11.....Professor Tate.

Honours Courses in Mathematics

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2.

Second Year:—Mathematics 3, 4, 5, Physics 3, 4 and one other approved course.

Third Year:—Courses 6, 7, 8, and a fourth course (in any subject) approved by the Department.

Fourth Year:—Courses 9 or 17, 10, 11, and a fourth course (in any subject) approved by the Department.

Honours Courses in Mathematics and Physics

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2.

Second Year:—Mathematics 3, 4, 5; Physics 3, 4. (Chemistry or English or German recommended as other subject to be chosen).

Third Year:—Mathematics 6, 7; Physics 5, 6.

Fourth Year:—Mathematics 10, 11; Physics 7, 8, 9, 10.

Honours Course in Economics and Mathematics

Second Year:—Two approved full courses in Economics and Mathematics 3 (Calculus), and Mathematics 4 (Co-ordinate Geometry), and one elective course in any approved subject.

Third Year:—Two approved full courses in Economics and Mathematics 7 (Calculus and Differential Equations), and Mathematics 8 (Advanced Algebra and Finite Differences).

Fourth Year:—Two approved full courses in Economics and one course from (a) Mathematics 17 (Theory of Interest and Life Contingencies), or (b) Mathematics 9 (Elementary Theory of Numbers), or (c) Mathematics 6 (Analytical Geometry of Three Dimensions), or (d) Mathematics 10 (Introduction to Theory of Functions of a real Variable), and any other approved elective course which may even be a second mathematical course not already taken from (a), (b), (c), or (d).

Graduate Courses in Mathematics

See the Announcement of the Faculty of Graduate Studies and Research.

MUSIC

Dean of the Faculty of Music:—Douglas Clarke

The courses in Music are open to those who have the qualifications for the regular courses of Music given in the Faculty of Music. The following courses may be taken as electives in the Faculty of Arts and Science. The first course of Music is for those who have offered Music as a Matriculation subject.

1. (a) *Harmony.*

The work covered is that required for the Intermediate Grade Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music).

Wed. at 4.15 or Sat. at 10.

Text-books:—MacPherson, "Rudiments of Music"; Kitson, "Elementary Harmony"—Part I.

(*b*) *Form and Analysis.*

Phrase. Sentence. Sequence. Cadence Accent. Rhythm. Time Melody. Modulation. Early Dance Forms. Suites—with special consideration of the Minuet and Trio.

Tues. at 4.

Text-books:—MacPherson, "Form in Music"; MacPherson, "Studies in Phrasing and Form"; R. O. Morris, "Structure of Music".

(*c*) *History* (Outline.)

Mon. at 4.

Text-book:—Stanford & Forsyth, "A History of Music".

(*d*) *Aural Training.*

Development of a mental appreciation of scale degrees; recognition of intervals and simple rhythms; quality of tone.

Thurs. at 4.

Text Book:—Aural Training, B. C. Allchin (Novello).

2. (a) *Harmony.*

The work covered is that required for the Senior Grade Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music).

Tues. at 5 or Sat. at 9.

Text-books:—MacPherson, "Rudiments of Music", "Practical Harmony"; Kitson, "Elementary Harmony"—Part II.

(*b*) *Form and Analysis.*

Sonata form, Sonata Rondo Form, standard type of classical sonatas, quartets, symphonies. The overture.

Thurs. at 5.

Text-books:—In addition to books on Form recommended for First Year: Essays in Musical Analysis—Tovey.

(*c*) *History.* (1600-1900).

Wed. at 5.

Text-books:—Colles, Growth of Music; Fellowes, The English Madrigal; Scholes, Listeners' History of Music—Part 3.

General Reading:—Parry-Williams, A Music Course; Hadow, Sonata Form; Finney, A History of Music. Parry, Evolution of the Art of Music.

(d) *Aural Training.*

Detecting major and minor chords, diminished and augmented triads. Dominant 7ths. Dictation, with modulation to neighbouring keys. Sight reading in two and three parts. Chromatic intervals.

Mon. at 5.

Text-book:—Aural Training. B. C. Allchin.

3. (*a*) *Harmony and Counterpoint.*

Harmony:—Vocal in three and four parts, up to chords of major and minor ninth and secondary sevenths, including the use of suspensions and passing notes (harmonizing of melodies and figured and unfigured bass, the completing of a harmonic sentence from a given pattern).

Text-books:—Macpherson, Melody & Harmony; Buck, Unfigured Harmony.

Counterpoint: In two parts—up to, and including 5th Species.

Text-books:—Gladstone, Strict Counterpoint; Kitson, Counterpoint for beginners.

Thurs. 4-5.30.

(*b*) *Form and Analysis.*

Origin, development of the Fugue. Analysis of some of the "48" and better known organ fugues. Comparison of fugues by various composers.

Wed. at 3.

Text-books:—Gray, Bach's Forty-eight; Macpherson, Bach's Forty-eight (A Commentary); Prout, Fugue.

(*c*) *History.* (Earliest times up to 1600.)

Mon. at 3.

Text-books:—Madeley Richardson, The Mediaeval Modes; Parry, The Art of Music; Dyson, The Progress of Music; Bacharach, The Musical Companion; Parry, Summary of Musical History; Walker, History of Music in England.

(*d*) *Chamber and Orchestral Music, Opera and Score Reading.*

Chamber Music and its development. Music for viols. The string quartet. Opera. History of the developments of the orchestra. Haydn's orchestra. Beethoven's orchestra. Description of orchestral instruments. The symphony. (The gramophone will be used.)

Tues. at 3.

Text-books:—Dunhill, Chamber Music; Dunhill, Mozart's String Quartets; Marliave, Beethoven Quartets; Tovey, Essays in Analysis (Vol. 1); Dent, Opera. Terry, The Music of Bach.

4. (*a*) *Harmony.*

Instrumental, in three and four parts. Figuration.

Mon. at 2.

Text-book:—Morris, Foundations of Practical Harmony and Counterpoint.

(*b*) *Counterpoint.*

Strict (covering all species)—up to three parts. Answers to fugue subjects. Fugal exposition in 2 parts.

Mon. at 3.

Text-book:—Madeley Richardson, Fundamental Counterpoint; Higgs, Fugue; Prout, Fugue; Madeley Richardson, Helps to Fugue Writing.

(*c*) *History.* (*Modern*).

Tues. at 3.

Text-books:—Nef, An outline of the History of Music; Ewen, from Bach to Stravinsky; Bauer, Twentieth Century Music; McNaught, Modern Musicians.

(*d*) *Form and Analysis.*

Analytical study of great works.

Thurs. at 3.

Text-books:—Various publications in the Musical Pilgrim Series, (Oxford Univ. Press); Tovey, Essays in Musical Analysis; Vaughan Williams, National Music; Tovey, A Companion to Beethoven's Sonatas; Markham Lee, Brahms Orchestral Works; Harrison, Brahms and his Four Symphonies; Dyson, the New Music.

(*e*) *Orchestral and Chamber Music Repertoire* (with gramophone).

Critical listening. Extended Chamber Music with solo instruments and advanced study of orchestral repertoire.

Wed. at 3.

Text-books:—Forsyth, Orchestration; Tovey, Essays in Music Analysis —Vols. 1 to 5; Dickenson, Mozart's Last Three Symphonies (Pilgrim). Colles' The Chamber Music of Brahms (Pilgrim).

PHILOSOPHY

Professors.....{.....
R. D. MACLENNAN
Assistant Professor.....J. S. FULTON*
Lecturer.....C. CURRIE

GENERAL COURSES

1. INTRODUCTION TO PHILOSOPHY. Second Year.

An introduction to philosophical thought on the world and man. There is included a short study of logic, deductive and inductive, and discussion of the relations of science, philosophy and religion.

Reading:—*Dialogues of Plato* (Modern Library); *Selections* from *Descartes, Berkley* and *Hume* (Scribner's Modern Students' Library); *The Traditional Formal Logic* (Sinclair, Methuen).

Once a week the class meets in tutorial groups.

Tu., Th., Sat., at 10..... Professors Maclennan and Mr. Currie.

2. ETHICS. Second Year.

The main types of ethical theory.

Reading:—Plato's *Republic* (Golden Treasury); Butler's *Fifteen Sermons* (Matthews, Bohn Library, Bell); Aristotle, *Politics*, Hobbes, *Leviathan* and Mill, J. S., *Utilitarianism* (Everyman Library); Kant, *Fundamental Principles of the Metaphysics of Morals* (T. K. Abbot, Longmans).

Mon., Wed., Fri., at 11..... Professor Maclennan.

3A. HISTORY OF GREEK PHILOSOPHY. Third and Fourth Years.

First term. Reading: Dialogues of Plato (Modern Library); The Basic Works of Aristotle (Random House).

Prerequisite—Philosophy 1, except for students in Honours Courses in Greek.

Mon., Wed., Fri., at 12.....

3B. READINGS IN PLATO AND ARISTOTLE.

Second term. Aristotle's *Ethics;* Plato, *Dialogues* (Random House).

Prerequisite—Philosophy 3A.

Mon., Wed., Fri., at 12.....

4. HISTORY OF PHILOSOPHY FROM THE RENAISSANCE TO THE PRESENT DAY.

Selections from *Descartes, Hume, Hegel* (Scribner's Modern Students' Library); Leibniz's Philosophical Writings (Everyman); Kant, Prolegomena to any future Metaphysic (Open Court); Bergson, Creative Evolution (Holt).

Tu., Th., at 12, and a conference hour to be arranged.....Mr. Currie.

Prerequisite—Philosophy 1.

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*On war service.

ADVANCED COURSES

5. Political and Social Philosophy.

Seminar on human relations, law, the State, international relations and ethics. Rousseau (*Social Contract*. Everyman, Dent; and other writings); Plato (*Republic and Laws*); Aristotle (*Politics* and *Ethics*, Everyman); various authors of the 17th and 18th centuries, notably Hobbes, Kant (*Metaphysic of Morals*, Longmans); Hegel; T. H. Green (*Principles of Political Obligation*); Karl Marx and contemporary authors. Various topical discussions will be held on Law, Freedom, Sovereignty, Democracy, Authoritatian Politics, Literature and Ethics, Religion and the State.

The students will make some special investigations of their own in this course.

Prerequisite: Philosophy 2. Students of advanced standing in economics and political science, or other cognate subjects, are permitted to take this course without fulfilling the above prerequisite, but only with the express consent of the lecturer.

Not given in 1943-44.

6. Problems of Logic and Metaphysics.

An examination of fundamental problems of logic, theory of knowledge and metaphysics will be made on the basis of selected readings in the works of Mill, Bosanquet, Stebbing, Dewey, Russell, C. I. Lewis, and other contemporary authors.

Prerequisites:—Philosophy 1 and 4.

Mon., Wed., Fri., at 10.....

7. Readings in the Classics of Modern Philosophy.

Modern Classics. Reading:—1st term: Spinoza, Ethics; 2nd term, Kant, Critique of Pure Reason.

Hours to be arranged.....Mr. Currie.

Prerequisites: May be taken by students in good standing in Philosophy with the consent of the lecturer.

8. Seminar on Contemporary Philosophy.

Subject for 1943-44: The Philosophy of Whitehead.

Time to be arranged.....The Staff.

HONOURS COURSES

The Plan of Honours in Philosophy.

Students taking an honours course are to study the subject of philosophy as a whole. They are expected to master a certain body of essential reading some of which may not be dealt with in any lecture courses and conferences. At the conclusion of the Fourth Year there is a comprehensive examination on the total work done in the field of philosophy. The examination will consist of three papers which take the place of examinations in the courses of the Fourth Year.

Students pursuing a combined Honours Course are examined on such portion of the general reading and courses as is pertinent to the combined subject-matter of their course of study. They take two of the comprehensive examinations instead of examinations in the courses of their Fourth Year.

The General Reading is as follows:

Reading for the Field of Philosophy

Plato: *Republic, Thaetetus, Timaeus.*

Aristotle: *Nichomachean Ethics, Politics, De Anima.*

Descartes: *Meditations,* etc.

Spinoza: *Ethics.*

Leibniz: *Philosophical Writings* (Everyman).

Locke: *Essay on Human Understanding.*

Newton: *Principia, Bk. 3, System of the World, Rules of Reasoning in Philosophy and Conclusion.*

Berkeley: *Principles and Dialogues.*

Hume: *Dialogues.*

Kant: *Critique of Pure Reason. Critique of Practical Reason.*

Hegel: *Introduction to Phenomenology of Mind,* and to *Philosophy of History.*

Bergson: *Creative Evolution.*

Whitehead: *Science and the Modern World, Adventures Of Ideas.*

The course requirements are as follows:

Second Year:—Philosophy 1.

Third Year:—Three general courses, 2, 3 and 4.

Fourth Year:—Three advanced courses and one full course in another subject approved by the department.

For any combined honours course, a total of five full courses including Philosophy 1.

Philosophy as a Continuation Subject

Students interested in studying philosophy in conjunction with other subjects are advised to take their courses in Philosophy in the sequences indicated below in connection with the other studies:

1. Philosophy with one or more studies in the social sciences, e.g., economics, history, politics, psychology and sociology.
   Philosophy 1, Philosophy 2, Philosophy 3, Philosophy 5.

2. Philosophy with one or more studies in the natural sciences, e.g., biochemistry, botany, chemistry, genetics, physics, zoology.
   Philosophy 1, Philosophy 4 or 6.

3. Philosophy with studies in English or Foreign Literature.
   Philosophy 1, Philosophy 2, Philosophy 3, Philosophy 4.

PHYSICS

Professors.....{A. Norman Shaw, D. A. Keys, J. S. Foster}

Associate Professors.....{H. E. Reilley, W. H. Watson}

Assistant Professors.....{H. G. I. Watson, F. R. Terroux}

Lecturer.....

Instructor in Laboratory Technique.....H. T. Pye

1. General Course.

Mon., Wed., and Fri. at 2, or at 3 (*by arrangement*); laboratory.

Tu. 2-4, or Wed. 4-6, or Th. 2-4.

Professor Keys and Demonstrators.

Text-books:—College Physics, Mendenhall, Eve, and Keys (Heath and Co.); An Elementary College Course in Experimental Physics (Renouf Publishing Co.).

1B. Outline of Physical Science*. (Open to B.A. and B.Com. students).

An introductory course in physics and astronomy, suitable for students taking the diploma in education, and also those interested in the influence of physical science upon other branches of learning.

Mon., Wed., and Fri., at 12; (laboratory, 10 periods only, Wed. 4-6, or by arrangement).

Reference books:—College Physics, Mendenhall, Eve and Keys (Heath); Astronomy and Astrophysics, Vols. I and II, Russell, Dugan and Stewart (Ginn).

2P. General Course (Advanced). *A continuation course in general physics, primarily for biological and pre-medical students. (Physics 1, or equivalent, prerequisite.)

Tu., Th., at 3, Wed. at 11, laboratory Wed. 2-4 or by arrangement.

Professor Reilley and Demonstrators.

Text-books:—Duff's Text-book on Physics (Blakiston): Laboratory Manuscripts (mimeographed). *Reference books:*—Daniel's Text-book on Medical Physics (Macmillan); Jones, Electricity and Magnetism (Lewis).

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*Not offered in 1943-44.

2. HEAT, SOUND AND LIGHT. (Engineering 311, Lab. 312.)

Tu., Th., Sat., at 11; laboratory, Wed., 11-1, or Wed., 2-4.

Professors Shaw, Terroux, and Demonstrators.

Text-books: Duncan and Starling's Heat, Light and Sound (Macmillan); Heat, Sound and Light Laboratory Manual (Renouf Publishing Co.).

3A. ELECTRICITY AND MAGNETISM. (Engineering 315, Lab. 316).

Mon., Fri., at 11; laboratory, Mon. or Fri. 2-5; also weekly voluntary tutorial.

Professors Reilley, H. G. I. Watson, and Demonstrators.

Text-books:—Brown, Electricity and Magnetism (Holt); Electricity and Magnetism Laboratory Manual (mimeographed).

Reference book:—Starling's Electricity and Magnetism (Longmans).

3B. STATIC AND HYDROSTATICS.

Wed. at 9.....Professor Reilley.

Text-book:—Loney's Statics and Dynamics (C.U.P.).

4. DYNAMICS.

Two hours, first term; one hour, second term. (A half course combined with Mathematics 5 to form a three-hour unit.)

Tu., Th., at 9.....Professor Terroux.

Text-book:—Loney's Statics and Dynamics (C.U.P.).

5A. PROPERTIES OF MATTER.

Tu. at 10; laboratory Fri. 2-5.....Professor Terroux.

Text-book:—Newman and Searle, "General Properties of Matter" (E. Benn Co.).

Reference book:—Champion and Davy, Properties of Matter (Blackie).

5B. STATICS, DYNAMICS OF A PARTICLE AND RIGID DYNAMICS.

Wed. at 9, Fri. at 9, Tutorial problem hour, Mon. at 12.

Professor W. H. Watson.

Text-books:—Lamb's Statics and Lamb's Dynamics (C.U.P.).

6A. ELECTRICAL MEASUREMENTS. (Graduate A.).

Tu., at 2, Wed., at 2, first term only; laboratory, Tu., 3-5, Wed., 3-5, both terms.

Professors W. H. Watson and H. G. I. Watson.

Reference books:—Law's Electrical Measurements (McGraw-Hill), Pidduck's Treatise on Electricity (C.U.P.); Hague's Alternating Current Bridge Methods (Pitman, London); Reich's Applications of Electron Tubes (McGraw-Hill).

6B. LIGHT. (Graduate B.) (Replaced by 8B in alternate sessions.*)

Sat. at 10; Tutorial problem hour, Tu. at 11; laboratory Th., 2-5
Professor Keys.

Text-book:—Houston's Light (Longmans).

References:—Robertson's Physical Optics (Van Nostrand); Wood's Physical Optics (Macmillan); Drude's Optics (Longmans).

6C. ELECTRICITY. (Engineering 318.)

Elementary electron physics.

Second term; Tu., Th., at 9.....Professor Keys.

Text-books:—Crowther's Ions, Electrons, and Ionizing Radiations (Arnold).

7A. ELECTROMAGNETIC THEORY. (Graduate C.)

Tues. at 10.....Professor W. H. Watson.

Text-books:—Pierce's Electric Oscillation and Electric Waves (McGraw-Hill); *Reference book:*—Elements of Electricity and Magnetism, by J. J. Thomson (C.U.P.).

7B. MATHEMATICAL PHYSICS. (Graduate D.)

This course includes an introduction to quantum theory and nuclear physics.

Mon., Th., at 10.....Professor Foster.

Text-books:—Houston's Introduction to Mathematical Physics (Longmans), and Page's Introduction to Theoretical Physics (Van Nostrand).

8A. MOLECULAR PHYSICS. (Graduate E.).

Wed., Fri., at 10 (laboratory, Mon. (or Tu.), 2-5).
Professors Shaw and W. H Watson.

Text-book:—Crowther's Ions, Electrons and Ionizing Radiation (E. Arnold). *Reference books:*—Richtmeyer's Introduction to Modern Physics (McGraw-Hill); Strong's Procedures in Experimental Physics (Prentice-Hall); Brown's Foundations of Modern Physics (Wiley).

8B. THEORY OF HEAT. (Graduate F.) (Replaced by 6B in alternate sessions.*)

Mon., at 9 (laboratory, †Th. 2-5); Tutorial problem hour, Sat. at 10.
Professor Shaw.

Text-book:—Roberts' Heat and Thermodynamics (Blackie).

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*Course 8B in '43-'44 and 6B in '44-'45.

†The Department of Mining and Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.

9. Radioactivity. (Graduate G.)

Tu., at 9, Th., at 11, laboratory, Fri., 2-5, second term.
Professor Terroux.

Reference book:—Rutherford, Chadwick and Ellis, Radiations from Radioactive Substances (C.U.P.).

10. Applications of Vector Analysis. (Graduate H.)*

Tu., at 10.....Professor W. H. Watson.

11. Astrophysics.*

Tues. and Fri. 10-11 (Lab. Tues. 2-4).

Reference books:—Russel, Dugan and Stewart, Vols. I, II, Astronomy (Ginn); Aitken, The Binary Stars, (Univ. of California Pub.).

12. Applied Geophysics. (Engineering 320, Graduate W.)

A course on the theory and practice of geophysical methods as applied to problems in Engineering and Geology.

Mon. and Wed. at 9, first term.....Professor Keys.

Text-book:—Applied Geophysics, Eve and Keys, 2nd edition (Camb. Univ. Press).

Reference book:—Elements of Geophysics, Ambronn, trans. Cobb (McGraw-Hill).

Honours Courses in Mathematics and Physics

Prerequisite:—High standing in Mathematics 1; Physics 1 or 2. First Year students intending to take these Honours courses are advised to take Physics 2 and the advanced section of Mathematics 1; in this case they should also attend that part of Course 1 which deals with electricity and magnetism.

Second Year:—Mathematics 3, 4, 5; Physics, 3A, 3B, 4; (Chemistry or English or German recommended as an extra subjet).

Third Year:—Mathematics 6, 7; Physics 5A, 5B, 6A, 6B (or 8B), 6C.

Fourth Year:—Mathematics 10, 11; Physics 7A, 7B, 8A, 8B (or 6B), 9.

Third and Fourth Year Honours students are invited to attend the Physical Society and colloquia.

A reading knowledge of scientific French and German should be obtained before the end of the fourth year.

See page 262 for course in Engineering Physics.

Graduate Courses in Physics

See the Announcement of the Faculty of Graduate Studies and Research.

*Courses 10 and 11 not offered in '43-'44.

PHYSIOLOGY

Professor.....H. E. Hoff
Assistant Professor.....N. Giblin
Lecturers.....S. Dworkin, Ronald Grant
Demonstrator.....Rhoda Grant

1A. Somatic Physiology.

Two lectures and one three-hour laboratory period weekly. First Term.

Prerequisites:—Chemistry, Physics 1, Zoology 1A.
Text-books:—Carlson and Johnson.

1B. Visceral Physiology.

Mon., Wed., Fri., at 11. Second Term.

Prerequisites:—Chemistry 1, Physics 1, Zoology 1A.

Text-books:—Carlson and Johnson, "The Machinery of the Body".

2B. Advanced Mammalian Physiology.

Mon., Wed., at 12; laboratory, Mon., 2 to 5. Second Term.

Prerequisites:—Physiology 1A and 1B.

Text books:—Sherrington, "Mammalian Physiology", and selected readings.

3. Zoological Physiology.

Given jointly by the Departments of Zoology and Physiology.

Tues., Thurs., at 12; laboratory, Mons., 2 to 5.

COURSES FOR HONOURS AND GRADUATE STUDENTS

4. Advanced Physiology.

5. Applied Physiology.

HONOURS COURSE IN ANIMAL PHYSIOLOGY

For general regulations concerning the Honours B.Sc. degree, see page 259.

The courses required for an Honours B.Sc. in Animal Physiology will vary somewhat, depending upon the stage at which a student decides to follow the course. It is recommended that this decision be made early, for otherwise the time-table may become crowded in the third and fourth years. The earlier the student begins his training in Zoology and Physiology the better. Students intending to honour in Physiology should be thoroughly grounded in both Chemistry and Physics. In the latter subject, the more detailed courses 2 and 3A are to be preferred to the single general course 2P. Physics 2 and 3A can be taken in the second and third years if Zoology 2 is taken in the second year and Zoology 6 postponed until the fourth.

First Year

As for the General B.Sc. course, with either Botany 1A and Zoology 1B, or (preferably) Zoology 1A and 1B, as the Elective Course.

Second Year

As for the Honours B.Sc. in Biological Sciences or Functional Biology with the provision that Physiology 1A must be included.

Chemistry 2, 4, 10;

Physics 2P or 2;

Physiology 1B (and, if possible, 1A):

Zoology 1A.

Third Year

Biochemistry 1, 2, 4;

Histology 1, or Zoology 5;

Mathematics 2;

Physiology 1A and 2B;

Zoology 2 and/or 6, or Physics 3A.

Fourth Year

Botany 2A;

Chemistry 3;

German 3 (if possible);

Physiology 3;

Zoology 2 or 6.

PSYCHOLOGY

Professor.....William D. Tait
Associate Professor.....Chester E. Kellogg
Assistant Professor.....N. W. Morton*
Sessional Lecturer.....Dr. Frances Alexander
Demonstrator.....M. G. de Jersey

1. Introduction to Psychology. Second Year.

Mon., Wed., at 10 and three laboratory periods per month to be arranged. This course is a prerequisite for all other courses.

Professor Tait and Mr. de Jersey.

Text-book:—Guilford, General Psychology.

*On war service.

2. ADVANCED PSYCHOLOGY. Third and Fourth Years.

A general survey covering the evolution of mind, individual development, experimental psychology, individual differences, and an introduction to social psychology and psychotechnics.

Mon., Wed., Fri., at 11 ..... Professor Kellogg.

3. EXPERIMENTAL PSYCHOLOGY. Third and Fourth Years.

Includes in the first term experiments upon perception, learning, feeling and emotion, etc.; in the second term, individual research projects. Lectures deal with experimental methods in psychological research. One hour's lecture and four hours' laboratory to be arranged. Instructor reserves right to limit registration. Students should consult Department before registering for this course.

Professor Tait and Mr. de Jersey.

4. PHYSIOLOGICAL PSYCHOLOGY. Third and Fourth Years.

Study of the physiological and neurological correlates of psychological processes. Open only to students who have passed or take concurrently Course 2 or Course 3, and to B.Sc. students taking continuation work in Biology.

Text-book:—Hathaway, Physiological Psychology.

Second Term, Mon., Wed., Fri., at 10 ..... Professor Kellogg.
(Not given in 1943-44.)

5. COMPARATIVE PSYCHOLOGY. Third and Fourth Years.

Comparative study of representative species from the protozoa to man, with special attention to researches on the learning process in lower mammals and primates; prehistoric and primitive man; race differences and race problems.

Open only to students who have passed or take concurrently Course 2 or Course 3 or Zoology 1, or have passed Biology 1.

Text-book:—Maier and Schneirla, Principles of Animal Psychology; Hooten: Up From the Ape.

Mon., Wed., and Fri., at 10 ..... Professor Kellogg.
(Not given in 1943-44.)

6. CHILD PSYCHOLOGY. Third and Fourth Years.

Lectures, readings and reports (half course).

Text-book:—Arthur Jersild, Child Psychology.

First term: Tu., Th., Sat., at 10 ..... Dr. Frances Alexander.
(Given in 1943-44.)

7. SOCIAL PSYCHOLOGY. Third and Fourth Years.

Lectures, readings and reports:

Tu., Th., Sat., at 11.....Professor Tait.
(Not given in 1943-44.)

Text-books:—Katz and Schanck, Social Psychology; Klineberg, Social Psychology.

8. ELEMENTARY STATISTICAL METHODS. Third and Fourth Years. Practical training for beginners.

Text-books: Guilford, Fundamental Statistics in Psychology and Education; Walker, Elementary Statistical Methods.

First Term: Mon., Wed., Fri., at 10.....Professor Kellogg.

9. EDUCATIONAL PSYCHOLOGY. Third and Fourth Years.

Lectures, reading, and a thesis.

Tu., Th., Sat., at 10.....Professor Tait.
(Not given in 1943-44.)

Text-book:—Starch: Educational Psychology.

10. MEASUREMENT OF INDIVIDUAL DIFFERENCES. Third and Fourth Years.

Methods of psychological testing and rating, and their clinical, educational and vocational application.

Open only to students who have passed or take concurrently Course 8 or Course 14.

Mon., Wed., Fri., at 12.....Dr. Frances Alexander.

11. PSYCHOLOGICAL PROBLEMS IN BUSINESS AND INDUSTRY. Third and Fourth Years.

Topics include the selection and training of employees; analysis of work-methods; accidents; fatigue and boredom; incentives, employer-employee relations; selling, advertising and market research.

Text-book:—Moore, Psychology for Business and Industry.

Mon., Wed., Fri., at 12.....Professor Tait.
(Given in 1943-44.)

12. SOCIAL PSYCHOLOGY OF EDUCATION. (Relations between Teacher, School and the Community). Third and Fourth Years.

Lectures, readings and reports.

Second term, Tu., Th., Sat., at 10.....Dr. Frances Alexander.
(Given in 1943-44.)

Text-book:—Bowden & Melbo, Social Psychology of Education.

13. Abnormal Psychology. Fourth Year.

A general introduction to the problems of personality maladjustment, mental deficiency, and mental disorders, psychological techniques in case-study, and psychotherapy.

Text-books:—Dorcus and Shaffer, Text-book of Abnormal Psychology; Maslow and Mittelmann, Principles of Abnormal Psychology.

Open to pre-medical students in third year.

Tu., Th., Sat., at 12.....Professor Kellogg.

14. Psychometric Methods. Fourth Year.

An intermediate general course, preparatory for research in psychology and the social sciences, or for junior grade professional services in statistics, personnel work, etc.

Text-books:—Croxton and Cowden, Applied General Statistics; Guilford, Psychometric Methods.

Hours to be arranged.....Professor Kellogg.

Honours Courses

Students contemplating Honours must take Psychology I and are advised to take Philosophy I in Second Year, also Biology and Elementary German in either First or Second Year. Admission to Honours will depend upon the student's standing in Psychology and related subjects.

Third Year:—At least two courses in Psychology, including either 2 or 3. The remaining courses should be selected in consultation with the Chairman of the Department.

Fourth Year:—Four full courses, as in third year. At the end of the Fourth Year Honours students are required to take a comprehensive examination covering the whole field. This examination may be either oral or written.

The requirements for Honours in Psychology and other subjects are two courses in Psychology and two in the other subjects selected, each year.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

SOCIOLOGY

Professor.....Carl Addington Dawson
Assistant Professor.....Forrest La Violette

1. Introduction to the Study of Society. Second Year.
   (a) Tu., Th., Sat., at 12.....Professors Dawson and La Violette.
   (b) Tu., Th., Sat., at 11.....Professors Dawson and La Violette.
   Text-book:—Dawson and Gettys, An Introduction to Sociology. The Ronald Press.

2. The Community. Third and Fourth Years.
   Tu., Th., Sat., at 9.....Professor Dawson.
   Given 1944-45.)

3. Immigration and Population Growth; the Assimilation of Alien Groups; the Race Factor in Canada. Third and Fourth Years.
   Professor Dawson.

4. Social Disorganization. Third and Fourth Years.
   Mon., Wed., Fri., at 9, 2nd Term.....Professor La Violette.

5. Social Origins: the Culture and Social Organization of Preliterate Peoples. Third and Fourth Years.
   Given 1944-45.....Professor La Violette.

6. Social Movements. Third and Fourth Years.
   Given 1944–45.....Professor La Violette.

7. The Family. Third and Fourth Years.
   Given 1944–45).....Professor Dawson.

9. The Sociology of the Child. Third and Fourth Years.
   Mon., Wed., Fri., at 9. 1st Term.....Professor La Violette.

11. Social Institutions. Fourth Year honours and graduates.
    Hours to be arranged.....Professor La Violette.

12. Social Attitudes and Personality.
    (Given 1944–45.).....Professor La Violette.

Honours Courses

Second Year:—Course 1 and two courses selected from any two of the allied Departments of Economics, Psychology, Philosophy and History.

Third Your:—Two full courses.

Fourth Year:—Three full courses.

The Department makes a liberal use of courses in allied Departments in planning the programme for honours students.

Students taking honours in Sociology and one other subject are required to take two courses in each Department.

Graduate Courses

For graduate courses in Sociology, see the Announcement of the Faculty of Graduate Studies and Research.

SPANISH

Sessional Lecturer.....Mrs. H. L. Henry

1. First Year.

Grammar, reading and dictation, oral exercises and composition.

Mon., Wed., Fri., at 2, 3, or 4.....Mrs. Henry and Miss Denton.

Texts:—Keniston, Learning Spanish (Holt); Crow, Spanish American Life (Holt).

2. Second Year.

Further cultural reading. Translation. Free composition. Conversation.

Tues., Thurs., Sat., at 11.....Mrs. Henry.

Texts:—Marcial Dorado & Laguna, Segundas Lecciones de Espanol (Ginn); Intermediate Spanish Grammar or Readings (Appleton); Temas Castellanos (Heath); Spoken Spanish (Heath).

3. Third Year.

Tu., Th., and Sat. at 9.....

Novelists of XIXth century. The conquest and colonization of Hispano-America.

Intermediate Spanish Grammar and Readings (Appleton); Cool's Spanish Composition (Ginn); Pageant of South American History (Longmans).

4. Fourth Year

Tu., Th., and Sat. at 10.....

(To be arranged).

Comparative Literature. Hispanic Contacts with European Literature (Third and Fourth Years). (English 24).

This course will be open to students having a reading knowledge of French or Spanish or both, and will deal with relations between the literature of Spain and that of other European countries, particularly England and France. Though readings in Spanish texts will be assigned much of the material will also be available in adequate translations.

Subjects for special study will be: (a) the European influence of *Don Quixote* and of the Picaresque Novel; (b) currents in Spanish pre-romanticism; (c) the historical novel in Spain and the influence of Scott; (d) Spanish developments of Byronism; (e) the Spanish *romances* in nineteenth-century literature.

Mon., Wed., Fri., at 3 (Not given in 1943-44).

ZOOLOGY

Strathcona Professor.....

Associate Professor and Chairman of the Department.....N. J. BERRILL

Assistant Professor.....V. C. WYNNE-EDWARDS

Lecturers.....HELEN W. DEANE, KATHLEEN TERROUX

Hon. Lecturer.....B. W. TAYLOR

Professor of Parasitology and Director of the Institute of Parasitology at Macdonald College....T. W. M. CAMERON

Carpenter Fellow.....JOAN ANDERSON

Research Fellow.....J. HOLTFRETER

1. GENERAL ZOOLOGY.

3 hours per week and 3 hours laboratory.

Professor Berrill.

Under the new plan the course is presented in two sections:

Section A. First term. *Introductory vertebrate zoology.*

Mon., Wed., Fri., at 11; Laboratory: Tu. or Th., 2-5.

The structure, function, reproduction, and evolution of man as a vertebrate animal.

Section B. Second term. *Evolution of the animal Kingdom.*

Mon., Wed., Fri., at 12. Laboratory: Tu. or Th., 2-5.

A survey of the animal kingdom illustrating the general principles of evolution and adaptation.

Required textbooks:—Romer, Man and the Vertebrates; Buchsbaum, Animals without Backbones.

The following alternatives are open:

General Zoology (Zoology 1A and 1B), prerequisites for other courses in Zoology.

Human Biology (Zoology 1A and Physiology 1B), recommended as a continuation of Biology 1, (Biology 3.)

Required textbooks: Romer, Man and the Vertebrates; Carlson and Johnson, Machinery of the Body.

Biology 1 (Botany 1A and Zoology 1B), a survey of the plant and animal kingdom, emphazing evolutionary principles.

Biology 2 (Zoology 1A and Botany 1B), higher animals and plants.

Students who have taken Zoology 1A *or* Zoology 1B are required to complete the General Zoology Course the following year before proceeding to other courses in Zoology except in special cases.

The following sequence of courses is recommended to students taking Zoology as an Honours or as a Continuation Subject: First Year, Botany 1A and Zoology 1B; Second Year, Zoology 1A followed by Physiology 1B.

2. Vertebrate Zoology.

Mon., Wed., Fri., at 10. Laboratory 4½ hours (Friday 2-5; Sat. a.m. Hours to be arranged.)

Equivalent to one full course and one half.

Professor Wynne-Edwards.

The organization of the vertebrate body; the evolutionary history of organs and parts of the body (Comparative Anatomy); the origin, evolution, classification and natural history of the six classes of the vertebrate phylum; and an introduction to mammalian anatomy.

Required textbooks:—Sayles, Manual for Comparative Anatomy; Bigelow, Directions for Dissection of the Cat, *and* either: DeBeer, Vertebrate Zoology, *or* Adams, Introduction to the Vertebrates, *or* Hyman, Comparative Vertebrate Anatomy.

3. Comparative Histology and Embryology.

Tu., Th., at 11, laboratory Tu., 2-5.

Professor Berrill.

A. First Term. *Comparative Histology.*

Required text-book: Kendall, Microscopic Anatomy of Vertebrates, *or* Cole, Comparative Histology, *or* a standard medical histology.

B. Second Term. *Comparative and Experimental Embryology.*

Required text-book: Fundamentals of Comparative Embryology of Vertebrates.

4. Comparative Invertebrate Zoology.

(For Honours students.)

3 lectures per week and 3 hours laboratory.

The organization and evolution of invertebrate animals, together with brief introductions to the subjects of protozoology, parasitology, entomology, marine biology, limnology, and ecology.

5. MICROSCOPY AND HISTOLOGICAL TECHNIQUE

(Limited to Honours students, for any Biological Department.)

6 hours per week (First Term)..... Dr. Deane.

Primarily a laboratory course; includes the study of the origin and nature of cell specialization and the organization to form tissues and organs.

6. ZOOLOGICAL PHYSIOLOGY (Physiology 3).

(Jointly with the Department of Physiology.)

Tu., Th., at 12, laboratory Mon. 2-5.

Dr. Grant and Dr. Terroux.

Comparative study of functions in all animal phyla.

7. ADVANCED VERTEBRATE ZOOLOGY. (Not given in 1943-44).

Tu., Th., at 12, laboratory 3 hours to be arranged.

Professor Wynne-Edwards and Mr. Taylor.

Special adaptations, natural history, ecology and economic zoology of the three largest vertebrate classes, namely the Bony Fishes, Birds and Mammals. About one-half of the course is devoted to ornithology.

HONOURS B.Sc. IN ZOOLOGY

FIRST AND SECOND YEARS. See general statement, page 260.

Students who have taken Zoology 1 in their first year and who have taken a second year alternative other than one of the six listed on page 260, should consult the Department of Zoology for further advice. Zoology 2 may be taken in the second year if Zoology 1 has already been taken. Biology 1 should be followed by Biology 3 in the second year.

THIRD YEAR.

The third year has been arranged so that the student has the option of obtaining his degree in Zoology either by continuing for his fourth year in the Department of Zoology or of transferring to the Department of Entomology at Macdonald College. The former alternative implies an intention to study general Zoology, the latter indicates an early intention of specializing in economic Zoology.

Third year requirements for students who have taken Zoology 1 in their second year:—

Zoology 2, 3, 4, or 5.

Any of Physiology 1B, Physiology 1A, Botany 1, Genetics 1, not already taken.

Additional courses to make a total of five.

FOURTH YEAR: Four optional courses are offered. These are:

(In the Department of Zoology).			(In the Department of Entomology)
(1) Embryology	(2) Physiological Zoology	(3) Comparative Anatomy	(4) Economic Zoology
Zoology 4	Zoology 4 or 5	Zoology 4 or 5	Zoology 32
Genetics 2	Botany 2A	Zoology 7	Entomology 32
Biochemistry 1	Biochemistry 1	Anatomy 1	Entomology 30
Genetics 3	Biochemistry 2	Histology 1	Entomology 35
Zoology 5	Physiology 3		Bacteriology 30
			Physics 33
			Parasitology 39 or Invertebrata (see Macdonald College Announcement)

These courses would prepare the student for graduate study as follows:

(1) Zoology and Genetics.
(2) Zoology, Genetics, Physiology.
(3) Zoology, Genetics, Anatomy.
(4) Zoology, Entomology, Parasitology.

For details of graduate courses offered in these departments see the Announcement of the Faculty of Graduate Studies and Research.

GRADUATE COURSES IN ZOOLOGY

See the Announcement of the Faculty of Graduate Studies and Research.

THE FACULTIES AND SCHOOLS OF THE UNIVERSITY OTHER THAN THE FACULTY OF ARTS AND SCIENCE

For brief details of these faculties and schools see the General Announcement which may be obtained from the Registrar's Office.

Separate Announcements of these faculties and schools may also be obtained from the Registrar's Office.

McGILL UNIVERSITY

MONTREAL

SCHOOL OF COMMERCE

1943 - 1944

McGILL UNIVERSITY

SCHOOL OF COMMERCE

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.
Dean of McGill College.....Hon. Cyrus Macmillan, M.A., Ph.D., M.P.
Director of the School of Commerce..E. F. Beach, M.A., Ph.D.
Bursar.....William Bentley, C.G.A.
Registrar.....T. H. Matthews, M.A.

B. COM. ADVISORY COMMITTEE

Professor E. F. Beach, *Chairman*

Professor P. E. Corbett
Professor J. P. Day
Professor W. H. Hatcher
Professor J. C. Hemmeon
Professor B. H. Higgins
Professor B. S. Keirstead
Dean Cyrus Macmillan
Professor H. Tate
Professor R. R. Thompson
Mr. P. F. Vineberg

A complete list of the teaching staff of the University, including the School of Commerce, is printed as a separate announcement, which may be obtained from the Registrar's Office.

SCHOOL OF COMMERCE

FOUR-YEAR COURSE LEADING TO THE DEGREE OF BACHELOR OF COMMERCE

For information concerning the Accountancy Diploma Course for students of the Accountancy Associations of the Province of Quebec, see pages 374 to 384.

ENTRANCE REQUIREMENTS

Candidates for admission to the First Year of the School of Commerce in September, 1943, and thereafter for the duration of the war, are required to pass either the Arts or Science Junior Matriculation or an equivalent examination (see General Announcement).

After the war Students will be admitted to the first year of the School only if they have completed the first year of the B.A. or B.Sc. courses or their equivalent.

A limited number of partial students may be admitted. For conditions of admission see the Announcement of the Faculty of Arts and Science.

For information concerning Limited Undergraduates see the Announcement of the Faculty of Arts and Science.

Women are admitted on the same terms as men.

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

Candidates desirous of entering the School of Commerce must apply for admission before September 10th. Application forms are provided by the Registrar's Office.

ADMISSION TO THE SECOND AND THIRD YEARS

ADMISSION BY SENIOR MATRICULATION.

For the session 1943-44 and each subsequent war year but not thereafter, the Senior Matriculation Examination of the University (Commerce Division) or any examination recognized as its equivalent will admit a student directly into the Second Year, provided

(1) The student has already passed the Junior Matriculation Examination or some equivalent examination.

(2) The student has obtained a second-class average in the Senior Matriculation examination papers.

ADMISSION BY TRANSFER.

Application for transfer into an upper year of the School should be made to the Registrar's Office. It must be made on the proper form and supported by certified copies of the applicant's previous academic record. Such an application will be considered only if the student is in good standing and has a rzcord which justifies the transfer.

Students admitted into the Second or the Third Year may be required to take certain courses compulsory in a lower year.

ADVISERS

At the time of registration each student entering the First Year is interviewed by a member of the Committee of the Board of Student Advisers. At this interview the student is given any information or advice that he may need and is assisted in the selection of his courses. At the same time he is assigned to an adviser whom he may consult at any time and should consult at least once a month.

REGISTRATION

All students entering the School of Commerce for the first time are required to attend on Freshman Day, Monday, September 27th. Registration in all years will take place on Tuesday, September 28th and Wednesday, September 29th. The session opens on Thursday, September 30th. Details of the Freshman Day arrangements will be sent to all new students when they are accepted.

Students who register after the official registration days, must pay a late registration fee. For registration during the first week of the session, $5.00. For registration during the second week of the session, $10.00. This fee is not refunded except for satisfactory reasons and by authorization of the Faculty of Arts and Science. After the 14th day of October no person is admitted to the school without the special permission of the Faculty.

Students who wish to make a change in their choice of studies must make application to the Registrar's Office to do so, on a regular form. No change in registration will be allowed, except under special circumstances, after the 15th October.

ATTENDANCE

Students of the First and Second Years and all partial students and students on probation are required to attend at least seven-eighths of the total number of lectures or laboratory periods in each course. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to come up for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth must repeat the work in that course.

Excuses on the ground of illness, domestic affliction or accident are dealt with only by the Dean.

Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. Serious breaches of discipline are dealt with by the Dean of the Faculty.

Lectures commence at five minutes after the hour on the conclusion of the roll call, and end at five minutes before the hour. Two lates count as one absence.

In cases where it is impracticable to record late attendance, students are marked absent.

EXAMINATIONS AND ADVANCEMENT FROM YEAR TO YEAR

Information concerning examinations, supplemental examinations, and advancement from year to year, will be found in the Announcement of the Faculty of Arts and Science.

PASS MARKS, CLASSES AND STANDING

The pass mark in all examinations is 50% and the marks for first and second class standing are 80% and 65% respectively.

When the student's record during his second, third and fourth years reaches a high second-class standing, a special award of "Distinction" will be made on graduation. When the record reaches first-class standing the special award made will be "Great Distinction". A student cannot receive the award of "Great Distinction", however, unless he has taken the thesis course.

A student may a degree of Bachelor of Commerce with Honours in Economics if he elects to do so during his second year, obtains the permission of the Director, and during the four years takes a minimum of seven courses in Economics with at least a second class average.

FEES

For fees in the Accountancy Diploma Course for Students of the Accountancy Associations of the Province of Quebec, see page 383.

For regular University fees and special fees see the General Information Pamphlet enclosed with this Announcement.

Dates of Payment.

Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 1 p.m., and 2.30 to 4.30 p.m. on the following dates:—

Monday, September 27th,
to
Wednesday, September 29th,

or, if desired, fees may be remitted by mail before the above dates.

The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees the Bursar sends to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

EXPENSES

An estimate of expenses will be found in the General Information Pamphlet included in this Announcement.

SCHOLARSHIPS, PRIZES AND MEDALS

See separate Announcement of Scholarships, Bursaries, Prizes, and Loan Funds.

COMMERCIAL SOCIETY LOAN FUND

A fund has been established by the Commercial Society to be known as "The Commercial Society Loan Fund," for th purpose of aiding each year one or more students of the School of Commerce who are entering their fourth year, to complete their course. Loans from this Fund are repayable within two years after graduation. Applications should be made to the Director of the School of Commerce.

COURSES FOR THE DEGREE OF BACHELOR OF COMMERCE

The curriculum leading to a B.Com. degree consists in part of compulsory courses, and in pat of optional courses chosen in accordance with the student's individual interests. As optional courses, a student may take any courses offered in the Faculty of Arts and Science other than the compulsory courses listed below which are approved by the Director. A student in any year is expected to satisfy himself before he selects any optional course:

(1) That he has completed any pre-requisite work that the Department concerned may require of students entering that course, and

(2) That there is no conflict in his time-table.

Students at the time of registration have an opportunity of duscussing with their advisers the optional courses that they may wish to take.

Compulsory Courses	Optional Courses
First Year	
Economic History Accounting 1 Mathematics 1 English 1 and 2	One of French** Spanish German
Second Year	
Elements of Economics Accounting 2 Mathematics 15 Science in Economic Life 1*	One course in English French German Spanish Psychology Philosophy Sociology History
Third Year	
Economic Statistics Economic Distribution Science in Economic Life II*	Any two full courses or their equivalent in half courses.
Fourth Year	
Economics—Money and Banking Science in Economic Life III*	Any Three full courses or their equivalent in half courses.

*This is a three year course with demonstrations not involving laboratory work. Science in Economic Life II will not be given during 1943-44, and therefore lessons in Economic Life III will be taken in second year.

**See page 369.

Fourth year students who have had a second class average are recommended to take the thesis course. No student can graduate with Greatt Distinction unless he has taken this thesis course.

Students who intend after graduation to enter a profession should acquaint themselves with the requirements for admission to that profession, and should take these requirements into consideration when choosing their optional courses.

THE MASTER OF COMMERCE DEGREE

Bachelors of Commerce who have obtained at least second class standing and who have the permission of the Director of the School of Commerce and of the Department of Economics may proceed to the Master of Commerce Degree. For particulars see the Announcement of the Faculty of Graduate Studies and Research.

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*See page 374.

DIPLOMA OF LICENTIATE IN ACCOUNTANCY

(Under the provisions of Quebec Statutes, Act 8, George V, chapter 43)

The following applies to Bachelors of Commerce, who entered the School of Commerce, as undergraduates before 31st May, 1940, and who wish to join one of the bodies of professional accountants incorporated under the laws of Quebec. For those who wish to enter the Society of Chartered Accountants of the Province of Quebec or the Corporation of Public Accountants of the Province of Quebec, and who enter the School of Commerce as undergraduates after 31st May, 1940, see below.

To obtain the Diploma of Licentiate in Accountancy, which carries with it right of entrance into the Society of Chartered Accountants of the Province of Quebec, or into the Institute of Accountants and Auditors of the Province of Quebec, or into the Corporation of Public Accountants of the Province of Quebec, the student must satisfy the following conditions:

(*a*) He must pass all the examinations required for the Degree of Bachelor of Commerce, and be granted that degree.

(*b*) The following courses must be included in his four-year course for the Degree of Bachelor of Commerce:

Four courses in Theory and Practice of Accounts.

Business Organization and Scientific Management.

Commercial Law.

Economics 1 or equivalent.

Mathematics 15. Elements of Co-ordinate Geometry and Calculus.

Mathematics 17. Advanced Algebra and Theory of Interest.

In the Commercial Law examination he must obtain 55%.

(*c*) He must spend at least one year, subsequent to his obtaining the Degree of Bachelor of Commerce, in the office of a practising accountant.

(*d*) He must attend the Evening Accountancy Diploma Courses in Final Accounting and Auditing. (See pages 376 and 377).

(*e*) He must make written application to the Director, School of Commerce, McGill University, to sit for the Final Accounting and Auditing examination, and with his application must include a statement from his employer or employers to the effect that he has spent at least one full year in the office of an accountant. The fee must be sent with the application.

He must pass successfully the final examination in Accounting and Auditing as provided by Act 8, George V, Chapter 43.

The Society of Chartered Accountants of the Province of Quebec has agreed to accept apprenticeship in a Chartered Accountant's Office anywhere in Canada.

Graduates must exert themselves to find an Accountant's Office willing to accept them during their period of apprenticeship. The University has no obligation in the matter.

THE SOCIETY OF CHARTERED ACCOUNTANTS

The following applies to Bachelors of Commerce who enter the School of Commerce as undergraduates, after 31st May, 1940, and who wish to join the Society of Chartered Accountants of the Province of Quebec.

Such students will be required to pass the Intermediate and Final Accounting and Auditing examinations of the Society.

Before presenting himself for the Intermediate Examination in Accounting and Auditing the student must have satisfied the following requirements:—

(a) He must have passed all the examinations required for the Degree of Bachelor of Commerce and been granted that degree.

(b) The following courses must have been included in his four-year course for the Degree of Bachelor of Commerce:

Four courses in Theory and Practice of Accounts.

Business Organization and Scientific Management.

Commercial Law.

Economics 1.

Mathematics 15 (Elements of Co-ordinate Geometry and Calculus).

Mathematics 17 (Advanced Algebra and Theory of Interest).

In the Commercial Law examination he must obtain 55%.

Before presenting himself for the Final Examination in Accounting and Auditing, the student must have satisfied the following requirements:

i. He must have registered with the society as one of its students.

ii. He must have passed the Society's Intermediate Examination in Accounting and Auditing.

iii. Subsequent to the passing of the Society's Intermediate Examination in Accounting and Auditing, he must have served two years in the office of a practising Chartered Accountant in the Province of Quebec.

iv. He must have attended the evening courses in Final Accounting and Auditing, and he must have passed the class-examination held at the close of those courses.

v. He must make written application to the Secretary of the Society of Chartered Accountants of the Province of Quebec on the form required by the Society.

vi. He must not be less than 21 years of age at the date of the Final Examination.

THE CORPORATION OF PUBLIC ACCOUNTANTS

The following applies to Bachelors of Commerce who enter the School of Commerce as undergraduates after 31st May, 1940, and who wish to join the Corporation of Public Accountants of the Province of Quebec.

Such Bachelors of Commerce will be required to pass the Final Accounting and Auditing examinations of the Corporation of Public Accountants.

Before presenting himself for this Final examination such a Bachelor of Commerce must have satisfied the following requirements:—

(*a*) He must have passed all the examinations required for the degree of Bachelor of Commerce, and been granted that degree.

(*b*) The following courses must be included in his four-year course for the Degree of Bachelor of Commerce:

Four courses in Theory and Practice of Accounts.

Business Organization and Scientific Management.

Commercial Law.

Economics 1.

Mathematics 15 (Elements of Co-ordinate Geometry and Calculus).

Mathematics 17 (Advanced Algebra and Theory of Interest).

In the Commercial Law examination he must obtain 55%.

(*c*) He must have served for a term of at least two years before the Final Examinations as clerk in the office of a member of the Corporation or of any other practising public accountant recognized as such by the Council of the Corporation, or he must have practised continuously as a public accountant under his own name for a period of at least three years immediately before the Final Examination.

He must obtain evidence to prove to the satisfaction of the Corporation that he has done one or other of the above.

(*d*) He must have attended the evening courses in Final Accounting and Auditing.

(*e*) He must obtain from the University and file with the Secretary of the Corporation a certificate from the University showing that he has complied with (*a*), (*b*) and (*d*) above.

(*f*) He must have made written application to sit for the Final Examination in Accounting and Auditing to the Secretary of the Corporation on the form required by the Corporation.

(*g*) He must be 21 years of age at the date of the Final Examination.

The Final Examination in Accounting and Auditing of the Corporation will be held once a year. The Board of Examiners will consist of five members, two to be appointed by the University and three by the Corporation.

COURSES OF LECTURES

The following are the required courses in Economics in the School of Commerce.

ECONOMICS

First Year—Economic History (Economics 17)

Evolution of economic institutions; the Ancient Empires; economic and social aspects of the Decline and Fall of the Roman Empire; mediaeval agrarian economy; fairs, towns and trading companies; mediaeval money; the Voyages of Discovery; religion and the rise of capitalism; Nationalism and Mercantilism; the Colonial System; the beginnings of modern banking; the great inventions and the factory system; North American industrial development; trade unions and the co-operative movement; legislative protection of the worker; international finance; rise and fall of the Gold Standard; evolution of the central banking function; recent economic changes.

Tues., Thurs., Sat., at 9.....Professor James.

Second Year—Elements of Economics (Economics 1c)

Wants and their characteristics; the purpose of production; what is meant by production; the factors of production; land, labour and capital; large scale production; the necessity for exchange and its problems; value and price; money; the quantity theory; the business cycle; the creation of credit; the Canadian banking system; Foreign Exchange; free trade and protection; the problems of distribution; rent; wages; labour organizations; interest; profits; alternative social systems.

Tues., Thurs., Sat., at 10.....Professor Keirstead.

Third Year—Economic Statistics (Economics 8)

Scope and meaning of statistics; publications of the Dominion Statistician and of government departments in Whitehall and Washington; the general method of statistical investigation; graphics; tabulation and frequency distribution; averages and the measurement of variations; index numbers; correlation; sampling and significance; analysis of time series; interpretation of statistical results.

Exercises and reports are an integral part of this course and students wishing to take it must be familiar with algebra and co-ordinate geometry.

Tues. and Thurs., at 4 p.m., with laboratory to be arranged.

Professor Beach.

Third Year—Economic Distribution (Economics 12)

A continuation of the principles of economics with particular reference to the conditions governing the distribution of the total national production among the members of the economy in the form of wages, interest, profits and economic rent.

Mon., Wed., Fri., at 11.....Professor Day.

FOURTH YEAR—MONEY AND BANKING (ECONOMICS 5)

A continuation of the principles of economics with particular reference to the exchange of goods and services and the part played by money and credit in facilitating this exchange.
Tues., Thurs., Sat., at 10.....Professor Day.

The following are *optional* courses in Economics for students in the School of Commerce:

A student may take a B.Com. degree with Honours in Economics if he elects to do so during his second year, obtains the permission of the Director, and during his four years takes a minimum of seven courses in Economics with at least a second class average.

Econ. 2.—Elements of Political Science.
Mon., Wed., Fri., at 12.....Prof. Hemmeon.

Econ. 3.—History of Political Theory.
Tues., Thurs., Sat., at 9.....Prof. Keirstead.

Econ. 4.—Labour Problems.
First Term: Tues., Thurs., Sat., at 12....Prof. Hemmeon.

Econ. 6.—Canada: Geographic, Industrial and Economic Problems.
First Term: Tues., Thurs., at 3.
(Not given in 1943-44).

Econ. 7.—The Government of Canada.
Second Term: Mon., Wed., Fri., at 3.....Mr. Vineberg.

Econ. 9.—History of Economic Theory.
Tues., Thurs., Sat., at 10.....Prof. Hemmeon.

Econ. 10.—International Trade and Foreign Exchange.
Mon., Wed., Fri., at 10.....Prof. Day.

Econ. 11.—Public Finance.
Second Term: Tues., Thurs., Sat., at 12....Prof. Keirstead.

Econ. 13.—Transportation.
First Term, Tues., Thurs., Sat., at 12.....Prof. Beach.

Econ. 14.—Government Regulation of Industry.
Tues., Thurs., at 3.....Prof. Higgins.

Econ. 15.—Corporation Finance.
Fourth Year. Second Term.
Mon., Wed., Fri., at 12.....Mr. P. F. Vineberg.

Econ. 16.—Economic History and Geography of North America.
Tues., Thurs., Sat., at 9.....Prof. Higgins.

Econ. 18.—Business Cycles.
First Term: Tues., Thurs., at 4-5.30.....Prof. Higgins.

ACCOUNTANCY

The first and second year courses are obligatory; the others are optional.

First Year—The Theory and Practice of Accounts (Accounting 1)

The principle of debit and credit; books of original record; documents employed; sales, purchases, consignments; returns inwards and returns outwards; correction of errors; subsidiary ledgers, and controlling accounts to represent them in the general ledger; special forms of cash-book required to facilitate such control; notes and drafts, discounting and renewal of notes; single entry; revenue and capital expenditure; trading, and profit and loss statements and balance sheet; single proprietorships; elements of partnership; elements of corporation finance.

Mon., Wed., Fri., at 12.....Professor Thompson.

If it is necessary that this course should be given with the evening course in the Elements of Accounting, students will have the option of taking it on Mondays 7-9 p.m. or Tuesdays 6.30-8.30 p.m.

Second Year—The Theory and Practice of Accounts (Accounting 2)

Special problems that occur in connection with partnerships; the deed of partnership; rights of partners; effects of dissolution; methods of distributing profits; the bringing in of other partners; goodwill; transformation of a firm into a corporation; departmental accounts; organization and internal check; distribution of expenses over departments; comparison of results shown with those of other periods; manufacturing accounts; the elements of cost accounting; building up C.I.F. and other quotations; the voucher-register, depreciation and methods of providing for it; reserves; corporation finance.

Mon., Wed., Fri., at 9.....Mr. Patton.

Third Year—The Theory and Practice of Accounts (Accounting 3)

(*a*) Theory of the Balance Sheet: Its form and elements; capital and revenue receipts and expenditures; valuation of fixed and current assets and liabilities; wasting assets; capital and revenue profits and losses; comparative balance sheets and statements and deductions to be drawn from them; surplus statements.

(*b*) Corporation Finance: Interior organization of the corporation; stock and bond issues; initial operations; earnings and their disposition; secret reserves; betterments; surplus; control exercised by directors and majority stock-holders; its abuse; different bases of capitalization; bonus stock; treasury stock; watered stock, discount and premium on bond issues; sinking funds.

(*c*) Cost Accounting: General considerations; advantages of cost systems; different methods of distributing overhead expense; comparison of costing estimates with general books; total cost of selling-price.

(*d*) Auditing: Elementary considerations; audit-programme for simple trading concern.

(*e*) Budgeting and budgetary control.

Tues., Thurs., Sat., at 10.....Professor Thompson.

Fourth Year—The Theory and Practice of Accounts (Accounting 4)

(Intended especially for students proceeding to a Diploma in Accountancy, although this course may be taken by all students who have reached the required standard.)

Cost Accounting: Control of stores, the running inventory; remuneration of labour; leakage in factories; forms used in "job and process" costing systems; connection of cost records with general accounts.

Export Houses and Branches: Accounts of head office and of branches; goods invoiced at cost; intermediate, and selling price; chain-stores; foreign exchange.

Consolidations, Amalgamations, Mergers: Consolidated statements and balance-sheets; holding corporations; control of stock and bond issues; minority holdings; advances to subsidiaries; intra-combine profits and liabilities; initial surplus and goodwill.

Insolvency Accounts: Statements of affairs; deficiency statement; realization and liquidation account.

Auditing: Considerations applicable to all undertakings, and special considerations applicable to particular concerns; auditors' rights and duties; audit-certificates.

Trustees' Accounts: Executorships and administratorships; accrued claims and income, corpus and income; division of an estate.

Income Tax: General considerations; taxable and untaxable income.

Instalment Sales.

Mon., Wed., Fri., at 11.....Professor Thompson.

BUSINESS ORGANIZATION AND SCIENTIFIC MANAGEMENT

Commercial Organization: Origin, growth and clasification of business organization; tests of efficiency in business organizations. Social and economic and legal aspects in the following types of organization: single proprietorship; partnership; joint stock company, public and private corporations; rights, duties, and liabilities of directors, officers, shareholders, and debenture-holders; agreements, pools, kartells, simple business trusts; combination trusts; securities-holding organization; amalgamation, and mergers; launching of an industrial enterprise; planning a budget; planning a factory; purchase and control of raw materials; labour and its control; wage systems, welfare work; reorganization of a factory; committee system; location of industries; principles and types of management; departmental relations; standardization and equipment; standardized operations; adequate records; efficiency rewards; organizations for the development of trade.

Tues., Thurs., Sat., at 11.....Professor Thompson.

ENGLISH

The courses in English give a general training in Composition and require a broad study of English Literature with a large amount of reading.

First Year

English 2, Literature, and Composition, as prescribed for students in the Faculty of Arts and Science—a general course. Readings and weekly individual conferences. Two hours a week. Professors Macmillan, Noad, Miss Mackenzie, and assistants.

Second Year

English Literature: Choice of Second Year Arts and Science courses.

Third or Fourth Year

A choice of any General Arts and Science courses in English in these years.

FRENCH

French 1. Students who do not intend to continue their study of French beyond the first year are advised to join a special sector of this course in which there will be more emphasis on language and less on literature.

Mon., Wed., Fri., at 9, 11, 2..Professor Furness and others.

French 2. General Survey of French Literature from the Middle Ages through the Sixteenth and Seventeenth Centuries; French Composition.

Tues., Thurs., Sat., at 9, 11.....Professor Furness and others.

French 5. French Civilization; Geographical Outline; Political, Social and Economic Aspects of French Life.

Mon., Wed., Fri., at 12.....Prof. Darbelnet.

For additional Courses in French, see the Announcement of the Faculty of Arts and Science.

GERMAN

German 1. German Language.

Tues., Thurs., Sat., at 9.....Mr. Beck and Miss Meyer.

German 2. German Language.

Tues., Thurs., Sat., at 10.....Prof. Graff and Miss Meyer.

German 5. German Language.

Mon., Wed., Fri., at 11.....Miss Meyer.

For additional courses in German, see the Accouncement of the Faculty of Arts and Science.

HISTORY

History 1A. European Civilization since the Roman Empire and its Expansion Overseas.

Tu., Th., Sat., at 9.....Professors Bagley and Cooper.

History 2. General History of North and South America.

Mon., Wed., Fri., at 9.....Professor Adair.

History 3. History of the British Empire.

Tu., Th., Sat., at 10.....Professor Cooper.

History 11. Canada and the United States: Their Diplomatic and Economic Relations from Colonial Times to the Present.

Tu., Th., Sat., at 11.....Professor Cooper.

For additional courses in History, see the Announcement of the Faculty of Arts and Science.

INDUSTRIAL RELATIONS

An introduction to the problems of the management of personnel and related problems arising from the conflicting viewpoints of employers and employees. Fourth year.

Second Term—Mon., Wed., Fri., at 9..... Professor Beach.

LAW

COMMERCIAL LAW 1.

Law of Contracts, Sale, Agency, Partnership, Company Law and Negotiable Instruments.

Tues., Thurs. and Sat., at 9.....Mr. P. F. Vineberg.

COMMERCIAL LAW 2.

Civil Responsibility, Lease and Hire.

Suretyship, Bankruptcy, Law or Taxation.

Hours to be arranged.....Mr. P. F. Vineberg.

(Not given during 1943-44)

JURISPRUDENCE.

This course is an enquiry into the nature and function of Law, its relation to society and the state, and a review of the principal institutions of a state.

(Hours to be arranged).....Professor Corbett.

INTERNATIONAL LAW.

This course consists of an enquiry into th origin and nature of International Law, its scope and authority, and its history and contemporary development.

(Hours to be arranged).....Professor Corbett.

(The courses in Jurisprudence and International Law are open to all students in the Faculty of Arts and Science in their third and fourth years.)

MATHEMATICS

FIRST YEAR

1. (*a*) Trigonometry. Three hours, first term.

Angles of any magnitude. Trigonometric functions of a single angle. Trigonometric functions of two or more angles. Solution of trigonometric equations. Relations between the sides and angles of a triangle. Solution of triangles with logarithms. Inverse functions.

(*b*) Algebra. Three hours, second term.

Ratio, proportion and variation; arithmetic, geometric and harmonic progressions; theory of quadratic equations; logarithms; permutations and combinations; binomial theorem; graphical calculus.

Mon., Wed., Fri., at 11.....Professor Tate.

Second Year

15. Elements of Coordinate Geometry:

(a) Algebra.

Complex numbers; properties of polynomials; theory of equations; determinants; probability; partial fractions; infinite series; finite differences and interpolation.

(*b*) Coordinate Geometry.

The coordinate geometry of the straight line, circle, parabola, ellipse and hyperbola.

Mon., Wed., Fri., at 12 ..... Professor Tate.

Third and Fourth Years

16. Elementary Calculus.

The derivative; differentiation of algebraic, exponential, logarithmic and trigonometric functions; applications of the derivative to the determination of maximum and minimum values, etc., partial differentiation; expansion of standard functions in series; definition and methods of integration; the definite integral.

Mon., Wed., Fri., at 10 ..... Professor Tate.

17. Theory of Interest and Life Contingencies.

(*a*) Theory of Interest.

Simple and compound interest and discount; force of interest and discount; annuities certain, continuous annuities and sinking funds; depreciation and capitalized cost; amortization schedule; building and loan associations; straight-term, serial and annuity bonds.

(*b*) Theory of Life Contingencies.

The mortality table; probabilities of life; statistical applications of the mortality table; life annuities and assurances, including the calculation of premiums and reserves; modern reserve systems; conversion tables; return of premiums.

Tu., Th., Sat., at 11 ..... Professor Tate.

The following courses are also open to qualified students in the School of Commerce during the second, third and fourth years.

2. Elementary Analysis.

Mon., Wed., Fri., at 10 ..... Mr. Rosenthall.

3. Calculus.

Mon., Wed., Fri., at 10 ..... Prof. Sullivan.

4. Algebra and Analytical Geometry.

Tu., Th., Sat., at 12.....Prof. Ross.

8. Advanced Algebra and Finite Differences.

Tu., Th., Sat., at 12.....Professor Tate.

(*a*) Mathematics 2 may be substituted for Mathematics 15 in case of a conflict with Accounting 1.

(*b*) Mathematics 3, 4 and 8 are mainly intended for those Commerce students who wish to enter the actuarial profession.

(*c*) Mathematics 17 is necessary for students who wish to proceed to the diploma of Licentiate in Accountancy.

(*d*) Mathematics 16 and 17 may be taken either in the third year or fourth year.

PSYCHOLOGY

1. Introduction to Psychology. Second Year.

Mon., Wed., at 10 and one week laboratory period to be arranged. This course is a prerequisite for all other courses.

Professor Tait.

10. Individual Differences and their Measurement. Third and Fourth Years.

Origins and growth of individual differences; methods of testing and rating; theories of organization of personality traits; applications in educational and vocational guidance. Students may devote some time to practical testing; if facilities are available.

Mon., Wed., Fri., at 12, First Term.....

11. Psychological Problems in Business and Industry. Third and Fourth Years.

Topics include the selection and training of employees; analysis of work-methods; accidents; fatigue and boredom; incentives, employer-employee relations; selling, advertising and market research.

Mon., Wed., Fri., at 12, Second Term.....

Text-book:—Moore, Psychology for Business and Industry.

For additional Psychology courses available, see the Announcement of the Faculty of Arts and Sciences.

SCIENCE IN ECONOMIC LIFE

These courses are designed to give the student an understanding of the various factors in man's physical environment that determine his manifold activities and his ability to utilize them to his advantage. In general, these factors are the subject matter of several physical sciences.

1. Earth and Related Sciences.

The various units of the earth's surface and their effects on climates and other features are discussed. The influence of these units on the occurrences of metals, non-metals, forest and agricultural products is considered along with the fundamental problems of transportation and power.

2. Physics.*

The student is introduced to the general aspects of physics, and from these the treatment leads to a consideration of how forces affect matter. The generation, transmission, and utilization of power.

3. Chemistry.

Chemistry has two classical subdivisions, organic and inorganic, and both with their many ramifications determine the ways in which matter can be made to serve man and, therefore, be of economic importance to him. The general and most useful principles of chemistry are treated so that the student can appreciate the rôle this science plays in modern industry.

SPANISH

1. First Year.—Grammar, reading and dictation, oral exercises and composition.

   Mon., Wed., Fri., at 2, 3 or 4.....Mrs. Henry.

2. Second Year.—Further cultural reading, translation, free composition, conversation.

   Tues., Th., Sat., at 11.....Mrs. Henry.

3. Third Year.—Novelists of XIXth Century. Advanced composition, translation, conversation.

THESIS COURSE

Students who have been recommended by the Director (generally those with a second class average or better) should write a thesis under the direction of one of the instructors in the School of Commerce. Such a thesis will have the value of one full course. In order to graduate with Great Distinction a student must take this course. The students will meet at a time and place to be announced. Subjects must be chosen and accepted by the Director by October 20th. A three thousand word outline of the subject must be submitted by December 20th, and the final report, typewritten, must be submitted not later than April 1st.

*Not offered 1942-43.

ACCOUNTANCY DIPLOMA COURSES

COMPULSORY COURSES

For students of the Accountancy Associations of the Province of Quebec. For fees see page 384.

These courses are compulsory for students of the Accountancy Associations of the Province of Quebec and are primarily intended for them, but they are also open to any others who wish to take them. Certificates will be granted to those who pass the examinations.

Students register and pay the required fee at the first or second lecture of the course they are taking.

For details concerning the Accountancy Associations students should consult:—

Miss Ethel Dixon, Assistant Secretary, The Society of Chartered Accountants of the Province of Quebec, 430 Canada Cement Building.

Mr. A. J. M. Petrie, C.P.A., Secretary, Corporation of Public Accountants of the Province of Quebec, 360 St. James St. West.

Mr. H. J. Ross, L.I.A., Secretary, Institute of Accountants and Auditors, 771 Burnside Street.

ELEMENTS OF ACCOUNTING

A pass from this course is a pre-requisite to Intermediate Accounting and Auditing.

Twenty-five lectures of two hours each.

The work covers matter outlined for the first year of the regular Commerce course, and is intended for less experienced students. Students who have passed in First Year Accounting at McGill University, or in Senior Matriculation in Accounting, are exempted from attendance at this course and its examination.

Section 1 on Mondays, 7-9 p.m., commencing October 4th.

Lecturer: Mr. G. B. A. Hall.

Demonstrator: Mr. J. W. Bedbrooke.

Section 2 on Tuesdays, 6.30-8.30, commencing October 5th.

Lecturer: Mr. A. V. Harris.

Demonstrator: Mr. J. Newland.

INTERMEDIATE ACCOUNTING AND AUDITING (PART I)

Twenty-five lectures of two hours each, given on Wednesdays, from 6.30-8.30 p.m., commencing October 6th. Students will be required to hand in home-work for correction and return.

Principles for Operating Statements and Balance Sheets; Partnerships, formation, special problems, dissolution, sale to an Inc. Coy.; Goodwill; Incorporated Companies, organization, share capital, bonds, annual meetings, statements, auditors; Manufacturing; Exceptional Losses; Departmentalization, distribution of expenses and income; Principles of Cost Accounting; Depreciation; Comparison of Operating Statements; Auditing; Working Papers, etc.

Lecturer.....Mr. P. K. Nutt

Demonstrator.....Mr. D. Luterman

INTERMEDIATE ACCOUNTING AND AUDITING (PART II)

Twenty-five lectures of two hours each, given on Wednesdays, from 6-8 p.m., commencing October 6th. Students will be required to hand in home-work for correction and return.

Balance Sheet Valuations, Current and fixed assets and liabilities, Wasting Assets, Bonds and Debentures, Reserves. Capital Stock, classification of shares, no par value regulations, forfeited stocks, treasury stock. Earned, Capital and Distributable Surplus, Capital and Revenue Profits and Losses, Uncompleted Contracts, Dividends. Critical analysis of the Balance Sheets. Comparative Balance Sheets and Operating Statements. Need and purpose of audits. Fraud and Error in accounts. Types and characteristics of audits. Rights, duties, and responsibilities of auditors. Audit of operations, verification of Assets and Liabilities. Working Papers. Investigations. Reconstruction and reorganization of Companies; mergers and amalgamations, Holding Company and subsidiaries, minority interests. Consolidated Statements.

Lecturer.....Mr. D. R. Patton

Demonstrator.....Mr. C. K. Anderson

Passes from the examinations of Parts I and II of the intermediate Accounting and Auditing course are pre-requisites to sitting for the Intermediate Examination in Accounting and Auditing of the Society of Chartered Accountants of the Province of Quebec.

FINAL ACCOUNTING AND AUDITING (PART I)

Part I should be passed before the student takes Part II.

50 lectures of two hours each given Mondays, 6.30-8.30 p.m., and Thursdays, from 6 to 8 p.m., beginning October 4th. Students will be required to answer test papers and hand in solutions for correction and return. 24 per cent of the final marks in the course will be awarded on homework and 76 per cent for the examinations taken at the end of the Part I course.

Criticism of operating statements and balance sheets; branch accounts; executorship and trustee accounts; holding companies and subsidiaries; bankruptcy and liquidation accounts; cost accounting; reorganizations; mergers and amalgamations; investigations; budgets and budgetary control; income tax; powers, duties and liabilities of auditors; audit procedure; working papers; internal check systems; rules of professional conduct; accountants' reports, etc.

Lecturers: (Mondays).....Mr. A. W. Gilmour
(Thursdays).....Mr. D. R. Patton
Demonstrators: (Mondays).....Mr. P. K. Nutt
(Thursdays).....Mr. J. F. Lewis

FINAL ACCOUNTING AND AUDITING (PART II)

50 lectures of two hours each, given on Wednesdays, 6-8, and Fridays, 7-9, commencing October 6th. Students will be required to answer test papers and hand in solutions for correction and return. 24 per cent of the final marks in the course will be awarded on homework and 76 per cent for the examinations at the end of the course.

On Fridays this course develops the studies in auditing, and the writing of reports, etc.

On Wednesdays, it is mainly devoted to the accounting systems, and special considerations in the audit of the following:

Insurance companies (fire, casualty and life); stock-brokers; municipalities; investment trusts; finance companies; lumbering companies; pulp and paper companies; chain and department stores; contractors; hospitals; clubs; professional firms, etc., etc.

Lecturers { (Wednesdays).....Mr. P. F. Seymour
(Fridays).....Mr. C. N. Knowles
Demonstrator (Wednesdays).....Mr. C. D. Mellor

Part I should be passed before the student takes Part II.

Part II should be passed before the student sits for the Final Examinations in Accounting and Auditing of the Society of Chartered Accountants of the Province of Quebec. Students who took Part I of this course previously to the session 1943-44 must pass the examinations on both Parts.

INTERMEDIATE MATHEMATICS

Twenty lectures of 1 hour each on Algebra and twenty lectures of 1 hour each on Theory of Interest, given on Fridays, from 6 to 8 p.m., commencing October 1st, 1943.

Arithmetic and geometric progressions; indices; logarithms; permutations and combinations; binomial theorem; theory of quadratic equations;

approximations; graphs, simple and compound interest; annuities and sinking funds.

Text-books:—D. Larrett. A Senior Algebra (George G. Harrop and Co., London). H. Tate, Elements of the Mathematical Theory of Interest (Chaps. I, III, IV).

Lecturer.....Professor Herbert Tate.

FINAL MATHEMATICS

Elements of Actuarial Science.

Twenty lectures of 1 hour each on Theory of Interest and twenty lectures of 1 hour each on Insurance, on Tuesdays, from 6 to 8 p.m., beginning October 5th, 1943.

The course embraces:—

The amortization schedule; straight-term, serial and annuity bonds; depreciation; building and loan associations. Elementary Insurance. Elementary Statistics.

Lecturer.....Professor Herbert Tate.

Text-books:—H. Tate, Elements of the Mathematical Theory of Interest (chapters I-VIII); J. B. Maclean, Life Insurance; S. Huebner, Life Insurance.

COMMERCIAL LAW

Twenty-five lectures of 2 hours each. On Tuesdays from 7-9 p.m., beginning October 5th, 1943.

Law of Contracts, Sale, Agency, Partnership, Company Law, Negotiable Instruments, and Taxation.

Lecturer.....Mr. P. F. Vineberg.

ECONOMICS

Course of 20 lectures, of 1 hour each, on Elementary Economics. On Fridays, from 6 to 7 p.m., beginning October 1st, 1943.

Lecturer.....Professor Day.

EXAMINATIONS

Examinations are held at the end of each of these courses. See special notes regarding the Accounting and Auditing Examinations.

Pass Marks.

Students who are absent for more than 1/8th of the lectures of their courses, and have no proper written excuse, such as a medical certificate

or letter from their firm showing that their duties prevented attendance, will not be allowed to sit for the examinations of their courses.

All students of societies whose rule it is that their students must pass this University's Intermediate and Pre-Final Examinations in Accounting and Auditing, before presenting themselves for the society's Intermediate and Final Examinations must pass in both Accounting and Auditing at the one examination. The pass-mark is 60 per cent. Where Accounting and Auditing are taken together an average of the marks on both papers is taken, but the candidate must have a minimum of 50 per cent on each paper.

In Commercial Law, Economics and Mathematics the pass-mark is 60%.

A student who obtains less than 40% in any of the examinations of these courses must repeat both the course and all the examinations of the course.

A student who fails but obtains 40% or more is required only to repeat all the examinations of the course. (For fees for re-examination see page 384.)

Students, registered with the Society of Chartered Accountants of the Province of Quebec, who fail to pass a part of the Pre-Final Examination in Accounting and Auditing in the next three succeeding examinations held after their completion of that Part of the course, must repeat that Part of the course of lectures.

ADVANCEMENT.

Candidates may not proceed from the Intermediate to the Final stage of a subject, until they have passed its Intermediate Examination. No student can sit for the Final Examination in Accounting and Auditing who has not passed all his Intermediate examinations and Final examinations in Commercial Law, Mathematics and Economics, and, in the case of registered clerks of the Society of Chartered Accountants, Quebec, the Pre-Final Examinations in Accounting and Auditing.

APPLICATIONS.

Students wishing to re-write any of these examinations must apply in writing, before March 25th, to the Director. Applications must be accompanied by the required fee (see page 384). Candidates must also state when the lectures in connection with each examination were taken.

Students who reside outside of Montreal and district and are therefore not qualified by attendance at the course may write the examinations on payment of the required fee (see page 384). Applications must reach the Director before March 25th.

OUTSIDE EXAMINATION CENTRES.

Outside examination centres may be established in special circumstances. Applications should be made to the Director before March 25th. Candidates will be required to pay all invigilation and other expenses, in addition to the regular examination fee.

POSSIBLE PLAN OF A STUDENT'S STUDIES.

The normal student, who does not have to repeat courses, could plan his studies as follows over his five years of registered service:—

First: Elements of Accounting (Mondays or Tuesdays).
Intermediate Mathematics (Friday).

Second: Intermediate Accounting and Auditing, Part I (Wednesdays).
Final Mathematics (Tuesdays).

Third: Intermediate Accounting and Auditing, Part II (Wednesdays).
Commercial Law, (Tuesdays).
Economics (Fridays).

Fourth: Final Accounting and Auditing, Part I (Mondays and Thursdays).

Fifth: Final Accounting and Auditing, Part II (Wednesdays and Fridays).

Students must plan their courses so that they do not have more than 6 hours of lecturing after 5 p.m. in one week.

SCHOOL OF COMMERCE

FINAL EXAMINATION IN ACCOUNTING AND AUDITING FOR LICENTIATE

The Final Examination in Accounting and Auditing for those wishing to obtain the Diploma of Licentiate in Accountancy is held about the beginning of December each year, before a joint board of examiners.

Application and Fees.

Application to write the examination must be made in writing before October 25th, to the Acting Director, School of Commerce. Applications must be accompanied by the special examination fee of $25. Applications must also be accompanied by a certificate of one year's apprenticeship in the office of a practising accountant.

Pass Marks.

In order to pass a student must obtain 60% or more of the marks assigned, with not less than 55% in either of the subjects. A student who fails may, on repayment of the examination fee, present himself again for the examination in the following year.

Outside Centres.

Candidates writing the Final Examination in Accounting and Auditing in outside centres (see page 380) will be required to pay a fee of $50. This includes the $25 examination fee, and covers invigilation and other expenses.

THE SOCIETY OF CHARTERED ACCOUNTANTS

INTERMEDIATE AND FINAL EXAMINATIONS IN ACCOUNTING AND AUDITING FOR C.A.

These examinations are held about the beginning of December of each year by the Society of Chartered Accountants of the Province of Quebec.

Those who wish to sit must have attended the compulsory courses on pages 376-377 leading up to the examinations, and have passed the examinations of those courses as follows:. .

Before Sitting for the Intermediate Accounting and Auditing.

Elements of Accounting.
Intermediate Accounting and Auditing (Parts I and II).
Intermediate Mathematics.
Intermediate Commercial Law.

BEFORE SITTING FOR THE FINAL ACCOUNTING AND AUDITING:

Pre-Final Accounting and Auditing (Parts I and II).
Final Mathematics.
Final Commercial Law.
Political Economy.

They must also make application to the Secretary of the Society of Chartered Accountants of the Province of Quebec, and satisfy him that they have complied with all of the Society's requirements.

THE CORPORATION OF PUBLIC ACCOUNTANTS

FINAL EXAMINATIONS IN ACCOUNTING AND AUDITING FOR C.P.A.

The Final Examination in Accounting and Auditing will be held once a year on days and dates to be fixed by the University after consultation with the Corporation. The Board of Examiners for the said Final Examination shall consist of five members, two to be appointed by the University and three by the Corporation. The consent of three members of the Board of Examiners shall be necessary to pass any candidate.

Those, who wish to sit, must have attended the compulsory courses on pages 374-377 and have passed the examinations of those courses, with the exception that it is not essential to have passed the Pre-Final Examinations in Accounting and Auditing.

They must also make application to the Secretary of the Corporation of Public Accountants of the Province of Quebec, and satisfy him that they have complied with all of the Corporation's requirements.

SUPPLEMENTARY EVENING COURSES

The following courses are not required by the Accounting Associations but are offered by the University to supplementt he required courses. An examination is held at the end of each courses.

FUNDAMENTALS OF COST ACCOUNTING

Thirty lectures of one hour each given on Mondays from 8-9 p.m., commencing October 4th.

This course deals with the fundamentals of Cost Accounting from the opening entries to the presentation of the Statements and Reports, discussing the following subjects: Purposes, Advantages and Installation of Cost Systems; Process and Job Costs; Elements of Cost; Purchasing, Consumption and Accounting for Materials; Perpetual Inventories and Stores Control; Accounting for Labour Costs; Wage Systems; Accounting for Manufacturing Expenses and their apportionment over departments and distribution to production; the Cost to Make and Sell; Production Records; Control of the Cost records by the General Accounts; Operating and Financial Statements and Cost Reports.

Lecturer.....Mr. F. A. Rutherford.

ADVANCED COST ACCOUNTING

Thirty lectures of one hour each, given on Mondays, from 6.30 to 7.30 p.m., commencing October 4th.

This course is designed for those having a fundamental knowledge of Cost Accounting principles and procedure. It deals with—Estimating Cost Systems; Budgetary Control, variable budgets; principles of Standard Costs, current and basic standards, variances, cost ratios; Defective and Spoiled Work; By-Products; Idle and Non-Productive Time; Weighted Averages; Relative Values; Interest on Investment; Uniform cost methods; Building up Cost Sheet; Statistical and Graphical Cost Reports; Statements. It includes the actual working out of a practice cost system.

Lecturer.....Mr. A. V. Harris.

INDUSTRIAL MANAGEMENT

Thirty lectures of one your each on Mondays from 7.45 to 8.45 p.m., commencing October 4th.

This course is designed primarily to cover the various problems which are encountered in managing an industrial establishment. It covers legal and internal forms of organization; location, construction and lay-out of plant; purchasing, production, advertising, sales, shipping and traffic; finance, accounting, engineering, power, maintenance and executive control; employment, wage systems and welfare work; industrial relations and leadership.

Lecturer.....Mr. C. N. Knowles.

INDUSTRIAL LAW

Thirty lectures of an hour each on Tuesdays from 6 to 7 p.m., commencing October 5th.

International industrial law (the International Labour Organization, etc.); fundamentals of Canadian constitutional law with special reference to the distribution of powers federal and provincial authorities in industrial and labour matters; fundamentals of the Quebec law of contracts; the contract of employment; work by estimate and contract; collective bargaining; minimum wage legislation; maximum hours of labour legislation; factory legislation; fundamentals of Quebec law of delicts and workmen's compensation; unemployment insurance; old age pensions, etc.; alien labour laws; status of trade unions; strikes; lock-outs; conspiracies in restraint of trade; Combines Investigation Act; industrial disputes; patents; trademarks; unfair competition; copyrights.

This course is not offered in 1943-44.

DUTIES OF SECRETARIES OF JOINT STOCK COMPANIES

Twenty lectures of one and one-half hours each, on Mondays, commencing on Monday, October 4th, at 6.30 p.m.

The procedure and administration of Companies registered under the Companies Acts, from their promotion to their dissolution, with special attention to the work of the secretary and the practice involved, also the routine work of a secretary's office. Business management and office organization; Division of responsibility; General systems of control and internal check; Responsibilities and duties of the officers of a Company, Income Tax. Detailed study of: Notices of meetings; The constitution of a meeting, quorum, chairman; The powers and duties of a chairman; The general conduct of a meeting (discussion and order in debate); The agenda paper, adjournments and postponements; Motions and resolutions; amendments, previous questions and closure; Voting and proxies; Minutes. A study of: Fair comment and privilege in speeches, The Preservation of order at public meetings, Expulsion from meetings, Admission of the press to meetings, Newspaper reports of meetings. A detailed study of the Law, Conduct and Procedure at Company Meetings; Meetings of Directors; notice quorum, privilege in speeches, minutes, committees; Meetings of Shareholders, kinds of meetings, notices, chairman, proceedings at general meetings, resolutions, and amendments, voting, proxies, adjournments, minutes, privilege in speeches.

Lecturer.....Mr. A. S. Keiller.

FEES IN THE ACCOUNTANCY DIPLOMA COURSES

Fees in the special Accountancy Diploma Course for students of the Accountancy Associations of the Province of Quebec:—

Elements of Accounting	$25.00*
Accounting and Auditing (Intermediate) Part I	25.00*
" " " " Part II	25.00*
" " " (Final) Part I	40.00†
" " " " Part II	40.00†
Commercial Law	25.00*
Mathematics (Intermediate)	20.00
" (Final)	20.00
Economics	15.00*

Supplementary Courses

Fundamentals of Cost Accounting	20.00*
Advanced Cost Accounting	20.00*
Industrial Management	20.00*
Industrial Law	20.00
Duties of Secretaries of Joint Stock Companies	20.00

†An extra charge of two dollars is payable with the fee to cover cost of mimeographed notes.

*An extra charge of one dollar is payable with the fee to cover cost of mimeographed notes.

Examinations

Students who reside outside of Montreal and district, and who wish to take the examinations, but who are not qualified by attendance at the course, pay a special examination fee, equivalent to about half the regular fee for the course, viz:—

Elements of Accounting	$10.00
Accounting and Auditing (Intermediate) Parts I or II	10.00
" " " (Pre-Final) Parts I or II	10.00
Commercial Law	10.00
Mathematics (Intermediate)	10.00
" (Final)	10.00
Economics	10.00
Final Accounting and Auditing Examination Fee	25.00

Fees for Re-examination

Elements of Accounting	$ 5.00
Intermediate Accounting: Part I	5.00
" " Part II	5.00
" Auditing	5.00
Pre-Final Examination Accounting and Auditing, Part I	10.00
Pre-Final Examination Accounting and Auditing, Part II	10.00
Commercial Law	5.00
Mathematics (Intermediate)	5.00
Mathematics (Final)	5.00
Economics (Final)	5.00

Evaluation and Registration of Certificates

Evaluation and registration of certificate exempting from the whole or part of the McGill Junior Matriculation Certificate.	$2.00

McGILL UNIVERSITY

MONTREAL

FACULTY OF ENGINEERING

1943 - 1944

	Page
Administrative Officers	405
Admission	407
Admission from the Science Division	408
Advanced Standing for Graduates in Arts and Science	412
Affiliated Colleges	411
Applied Mechanics	440
Architecture:—	
Course in	417
Subject of	436
Attendance	410
Bursaries	412
Certificates Recognized	408
Chemical Engineering, Course in	420
Chemistry	437
Civil Engineering:—	
Course in	422
Subject of	440
Classification of Marks	414
Colleges, Affiliated	411
Committees	405
Courses of Instruction	414
Curriculum	415
Degrees	412
Descriptive Geometry	442
Discipline	410
Drawing	442
Economics	445
Electrical Engineering:	
Course in	423
Subject of	446
Engineering Courses	416
Engineering Law	445
Engineering Physics	456
Engineering Practice	445
Engineering Societies	414
Entrance Requirements	407
Essays	431
Examinations	413
Fees	410
Field Schools	430, 452, 457, 458

	Page
First Year Course	416
Geodesy	458
Geological Sciences	445
Health Service	409
Law for Engineers	445
Loan Funds	412
Marks, Classification of	414
Mathematics	446
Mechanical Engineering:—	
Course in	425
Subject of	448
Medical Examination	409
Metallurgical Engineering:—	
Course in	426
Subject of	456
Mineralogy	446
Mining Engineering:—	
Course in	429
Subject of	451
Physics	455
Physics, Engineering	456
Registration	409
Sanitary Science	441
Scholarships	412
Second Year Course	417
Senior Matriculation	407
Societies	414
Standing and Promotion	458
Subjects of Instruction	435
Summer Essays	431
Summer Schools	430
Surveying	459

McGILL UNIVERSITY

FACULTY OF ENGINEERING

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L.
Dean of the Faculty of Engineering....John J. O'Neill, M.Sc., Ph.D. (Yale), F.R.S.C.
Director of the School of Architecture..John Bland, B.Arch., A.R.I.B.A., A.M.T.P.I.
Bursar.....William Bentley, C.G.A.
Registrar.....T. H. Matthews, M.A.
University Librarian.....Gerhard R. Lomer, M.A., Ph.D., F.L.A.
Superintndent of Buildings.....P. W. MacFarlane.
Secretary of the Faculty.....R. DeL. French, B.Sc., C.E.

STANDING COMMITTEES OF THE FACULTY

ADMISSION TO ADVANCED STANDING FROM OTHER UNIVERSITIES

Professors Roberts (*Chairman*), MacLean and Jamieson

EXAMINATIONS AND TIME TABLES

Professors Wood (*Chairman*), Coote, Holden and Pall

REGISTRATION, STANDING, AND PROMOTION

Professors MacEwan (*Chairman*), MacLean, Dodd Phillips and Nicholls

EMPLOYMENT

Professors French (*Chairman*), Christie and Roberts

ADVISORY COMMITTEE ON THE SCHOOL OF ARCHITECTURE

Professor John Bland (*Chairman*), Messrs. E. I. Barott, H. L. Fetherstonhaugh, J. C. McDougall, J. C. Merrett and J. J. Perrault

A complete list of the teaching staff of the University, including the Faculty of Engineering, is printed as a separate announcement which may be obtained from the Registrar's Office.

FACULTY OF ENGINEERING

ENTRANCE REQUIREMENTS

ARCHITECTURE

For admission to the School of Architecture for the session 1943-44 candidates must fulfil the requirements set down in the announcement for the session 1942-43. Thereafter there will be no separate entrance requirements for Architecture.

ENGINEERING

Candidates may qualify for admission to the Faculty of Engineering either by completing the first B.Sc. year of the Faculty of Arts and Science, including the pre-engineering course in Mathematics, or by passing the Senior Matriculation Examination in the following subjects:

(a) *Compulsory:*—

English, Mathematics (three papers: Algebra, Plane Geometry and Trigonometry, and Co-ordinate Geometry), Physics, Chemistry.

(b) *Elective:*—

Any one of the following:—History, Biology, French, German, Greek, Latin, Spanish.

The pass-mark in each Senior Matriculation paper is 50%. The examinations are held in June and in September. Full details are given in the General Announcement, which may be obtained from the Registrar's Office.

For a list of other certificates recognized, see below.

Students entering Engineering by means of first year B.Sc. are strongly recommended to take Intermediate Mathematics in their Junior Matriculation. Failure to do so will not disqualify a student, but will entail additional work in this subject in the pre-engineering year.

ADMISSION REGULATIONS FOR STUDENTS ENTERING FROM THE SCIENCE DIVISION

1. A student who has passed in May or September all the subjects of the First Year of the B.Sc. course of the Faculty of Arts and Science may enter the Faculty of Engineering without conditions.

2. A student who has failed in any of the papers in Mathematics, Physics, or Chemistry (including Chemistry 1L) will not be admitted.

3. A student who has failed in one subject only (other than Mathematics, Physics or Chemistry) may be admitted with a condition in this subject if, and only if, his average standing in Machematics, Physics, and Chemistry is at least Second Class.

4. A student who has failed in more than one subject will not be admitted.

5. Students who after the May examinations are qualified to enter under Section 3 are strongly advised to try to remove their condition by writing the September supplemental before entering the Faculty of Engineering. Failure to remove a pre-engineering condition usually proves a serious handicap, and special regulations governing graduation apply to students who fail to remove such a condition after three attempts, including the initial failure.

APPLICATION FOR ADMISSION

Students desiring to enter the Faculty of Engineering must make applications on forms which may be obtained from the Registrar's Office. Completed forms must reach the Registrar before September 10th.

CERTIFICATES RECOGNIZED

Candidates will be admitted into the faculty only if they show an adequate preparation and ability in mathematics.

With this condition, the following certificates will be accepted in lieu of the Senior Matriculation Examination, in so far as they meet the requirements:—Upper School Certificates of the Province of Ontario; Grade XII Certificates of the Provinces of Quebec, Nova Scotia, Manitoba, Alberta and Saskatchewan; the Third Year Certificates of the Prince of Wales College, P.E.I.; the Senior Matriculation Certificates of British Columbia and Newfoundland; and the Higher Certificates of the Oxford and Cambridge Schools Examination Board, the Oxford and Cambridge Local Examination Boards, the English Northern Universities Examinations Board, the Central Welsh Board, and of Durham, Bristol, and London Universities.

HEALTH SERVICE

Information concerning the University Health Service will be found in the General Information Pamphlet enclosed with this Announcement.

Those engaged in certain branches of mining and metallurgical work are subject by Provincial authorities and mining companies to regulations regarding physical fitness, with particular reference to chest conditions and sight. Students registering for courses in Mining or in Metallurgical Engineering are therefore required to undergo a special medical examination to determine their fitness. Convenient arrangements are made through the University Medical Officer for such examinations. While assisting students to determine their degree of fitness, the University assumes no responsibility for decisions made by those administering the regulations referred to above.

REGISTRATION, ATTENDANCE AND DISCIPLINE

REGISTRATION

All students entering the Faculty of Engineering must register in the Macdonald Engineering Building on Tuesday, September 28th, between the hours of 9.00 a.m. to 12.30 p.m., and 2.00 p.m. to 5.00 p.m., in accordance with instructions given below:—

(1) Students entering the Faculty of Engineering for the first time must register in Room 74.

(2) All other students must register in Room 75.

Students registering after September 28th but not later than October 6th are required to pay a late registration fee of $5, which fee is increased to $10 for students registering after October 6th. This fee is not refunded except by authorization of the Faculty. After October 15th, no student is admitted except by special permission of the Faculty.

ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one subject. The Faculty of Engineering has the authority of Senate to modify this regulation except as regards students of the First Year, but only in so far as attendance at lectures is concerned. The Faculty regulations governing attendance are bulletined at the opening of each session. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course in which attendance is compulsory are not permitted to sit for the regular examinations in that course, and those whose unexcused absences in such courses have exceeded one-fourth of the total number of lectures must repeat the work in that course.

Excuses on the ground of illness, urgent affairs or domestic affliction are dealt with by the Dean only.

An excuse for absence due to illness is granted only when the application is accompanied by a certificate from the attending physician. Applications for all excuses must be filed with the Dean within three days after the period for which the excuse is requested.

Excuses granted must be shown to all professors concerned as promptly as possible.

2. An attendance record is kept by each instructor, which is submitted to the Faculty when required.

3. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. In the case last mentioned the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline after admonition by the Professor, is reported to the Dean. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend the student from classes.

4. Lectures commence at five minutes after the hour. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they report themselves at the close of the lecture and are marked "late." Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of these exercises are marked absent.

DISCIPLINE

The University Regulations concerning discipline are administered by the several Faculties, subject, when necessary, to revision or confirmation by Senate.

FEES

The regular fees and special fees are given in the General Information Pamphlet included in this Announcement.

Special Fees in Engineering.

Summer Schools.—Students who are eligible to attend Summer Schools in May or September as part of their regular course pay $10 as a caution money deposit. Students taking Summer Schools as an extra will pay $25 plus a caution money deposit of $10.

DATES FOR PAYMENT.

Fees are due and payable at the Bursar's Office between the hours of 9 a.m. to 1 p.m. or 2.30 to 4.30 p.m. (Saturday 9 a.m. to noon), on the following dates:— Tuesday, September 28th

to

Saturday, October 2nd, inclusive

or if desired fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees, the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or satisfactory arrangements are made with the Bursar.

COLLEGES AFFILIATED WITH THE FACULTY OF ENGINEERING

The conditions on which students may enter from certain colleges and universities are stated below. Such students, and others seeking similar advanced standing, should make application to the Dean of the Faculty, preferably not later than the end of July. All such students are subject to the regulations of the Faculty regarding experience in practical work and physical examination (see pages 431, 409). Due allowance is made for courses in shopwork forming part of the curricula in the colleges in which they have previously studied.

ACADIA, ALBERTA, MOUNT ALLISON AND ST. FRANCIS XAVIER UNIVERSITIES are affiliated with McGill University to the extent that students who have completed the two-year or three-year courses in engineering given by these universities are admitted to the Third Year in any of the engineering courses in the Faculty of Engineering, except Chemical or Metallurgical and Mining Engineering, for which special arrangements are at present necessary.

Students from these universities entering the Third Year must take the summer school pertaining to their courses in May, or the special school in September, which will open in 1943 on September 1st in Mechanical Engineering, and on September 16th in Civil Engineering and Mining Engineering.

ROYAL MILITARY COLLEGE.—The regular four year course at the Royal Military College has been replaced by a special war-time course of two years. The regulations concerning the admission into Engineering of graduates of this short course may be obtained from the Registrar's Office.

UNIVERSITY OF CAMBRIDGE.—Arrangements have been made whereby graduates and students of the Mechanical Science course in the University of Cambridge are admitted to advanced standing in the Faculty of Engineering under definite regulations, particulars of which can be obtained from the Dean of the Faculty.

SCHOLARSHIPS, BURSARIES, PRIZES, MEDALS, AND LOAN FUNDS

Details of Scholarships, Bursaries, and Loan Funds will be found in the Announcement of Scholarships, Bursaries, and Loan Funds which may be obtained from the Registrar's office.

ADVANCED STANDING FOR GRADUATES IN ARTS AND SCIENCE

Graduates in Arts and Science desiring to proceed to the degree of B.Arch. or B.Eng., should apply to the Dean, Faculty of Engineering, for information regarding the regulations governing such procedure.

DEGREES, EXAMINATIONS, AND SOCIETIES

DEGREES

Degrees conferred by the University upon such undergraduates of the Faculty as fulfill the conditions and pass the examinations hereinafter stated are:—"Bachelor of Architecture" (B.Arch.), and "Bachelor of Engineering" (B.Eng.), mention being made in the diplomas of the latter of the particular course of study pursued.

Students who take the Bachelor of Engineering degree in one course may graduate in another course by attending one or more subsequent sessions and passing the prescribed additional examinations.

PRIVILEGES OF THE HOLDERS OF THESE DEGREES

Among the privileges enjoyed by graduates of the Faculty of Engineering the following may be specially mentioned:—

(1) By a resolution of the Institution of Civil Engineers of Great Britain, the holders of the degree of B.Eng. who are desirous of becoming Associate Members of the Institution, may be exempted from Parts A and B of the examinations prescribed for admission to the Institution.

(2) By the Dominion Lands Surveys Act, any graduate in civil or mining engineering may have his term of apprenticeship for the Dominion Land Surveyor's certificate shortened from three years to one.

(3) Holders of the degree of B.Eng. are admitted to practice in Quebec, upon graduation, provided they register with the Corporation of Professional Engineers of Quebec upon entering the Faculty. Students entering the Faculty should therefore obtain the necessary application forms from the Dean's office, complete them and return them to that office.

(4) The School of Architecture is recognized by the Royal Institute of British Architects, and the instruction given meets the requirements of the Board of Architectural Education of that body. Students who obtain the degree of B.Arch. are exempted from the final examination for the associateship of the Royal Institute excepting in the subject of Professional Practice, in which they are required to take a paper set by the Institute's examiners. On passing this they are eligible for candidature as Associate R.I.B.A.

(5) The Province of Quebec Association of Architects admits holders of the degree of B.Arch. to membership, and thereby to practice in the Province, on passing an examination in Professional Practice and after spending one year in the office of a member of the Association, or upon completion of service in the Army Engineer Corps. This office experience may be gained during the summer vacations.

EXAMINATIONS

1. Final examinations are held in all lecture subjects. Class examinations, for which credit may be given in the sessional standing, are held at the option of the professor.

2. Students who have failed in one or more subjects of the curriculum, except in cases where they are called upon to repeat their year, are required to make good their standing by passing:—

(a) the regular supplemental examinations held immediately before the opening of the session, or

(b) the final examinations in a subsequent session.

Special examinations are given only under exceptional circumstances and by authority of the Faculty.

3. The pass standard in examinations in subjects in which the candidate has already failed twice is sixty per cent, and an unexcused absence from a sessional or supplemental examination is regarded as a failure.

4. Failures in drafting and laboratory subjects may under certain conditions be made good by attending special classes during the late afternoons of the first two months of the following session. No student is permitted to attend these schools unless he has made at least 30% in the subject of the school. These classes must be completed and the results reported to the Faculty on or before December 1st.

5. No undergraduate is allowed to take instruction in any subject until he has passed the examinations in the necessary prerequisite subjects.

6. Classes.

Class I.....80–100%
Class II.....65– 79%
Class III.....50– 64%

ENGINEERING SOCIETIES

1. Upon entrance into the Faculty, all undergraduate students automatically become members of the Engineering Undergraduates Society.

2. The students also support the Society of the Phi Epsilon Alpha. The members of this society are selected from graduates and undergraduates in engineering, and its object is to encourage high standards of character and scholarship.

3. Students in all departments of engineering are strongly recommended to become student members of the Engineering Institute of Canada, for which a fee of $3 is required. They are then entitled to the Journal of the Institute, to the use of the Institute's building, 2050 Mansfield Street, and to attend the weekly meetings.

Students are invited to compete for the prizes which are offered by the Institute.

4. Students in Mining Engineering and in Metallurgical Engineering are strongly recommended to become members of the McGill Mining and Metallurgical Society, which, although a student body, is affiliated with the Canadian Institute of Mining and Metallurgy, the headquarters of which are in Montreal. Members of this Society receive the Monthly Bulletin of the Transactions of the Institute free, and are entitled to attend meetings and to compete for prizes offered.

COURSES OF INSTRUCTION

Instruction in this Faculty is designed to afford thorough training of a practical as well as theoretical nature, in the following branches:—

I—Architecture
II—Chemical Engineering
III—Civil Engineering
IV—Electrical Engineering
V—Mechanical Engineering
VI—Metallurgical Engineering
VII—Mining Engineering

A note concerning graduate courses follows the list of undergraduate courses in each department. Details are given in the Announcement of the Faculty of Graduate Studies and Research. A course is also offered in Engineering Physics, see page 456.

CURRICULUM

The curriculum as laid down in the following pages may be changed from time to time, as deemed advisable by the Faculty, and is in no case binding beyond the session covered by this calendar announcement.

The course for a degree in any branch of Engineering is one of four years, and for a degree in Architecture the course is a five-year one.

The degree in Engineering will not be conferred upon any candidate until he has passed the prescribed examinations of his course, and has submitted satisfactory evidence to the Faculty of having had six months of experience in practical engineering work. Similar regulations apply to the degree in Architecture. The conditions regarding practical work in the School of Architecture are set forth under the heading of Summer Work, Courses 35, 36, 37, 38, on page 437. Forms, obtainable from the Dean's Office, must be signed by the employer and returned on or before 1 p.m. Saturday, October 30th, 1943.

The work prescribed for the first two years is the same in all Engineering courses, except in Architecture, Chemical Engineering, Metallurgical Engineering and Mining Engineering.

The first two years of the Engineering courses are devoted to mathematics, mechanics, physics, chemistry and drawing, as it is necessary that students in these courses should master the general principles underlying scientific work before commencing professional subjects.

In certain courses, students are required to attend Summer Schools following the completion of the work of the session in the First, Second, and Third Years; for details, see page 430.

The regular work of the session 1943-44 will begin on September 30th; 1943, and end on May 25th, 1944.

ENGINEERING COURSES

The subjects of instruction in the First Year of the Engineering Courses, and the number of hours per week devoted to each, are as follows:

FIRST YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Elementary Physical Chemistry and Laboratory	51	2	2	1	1
Descriptive Geometry	341	2	2	4	4
Mechanical Drawing	340	..	..	3	3
Engineering Problems	80	..	..	3	3
History of Science	135	1	1	..	..
Spherical Trigonometry and Mensuration	191	..	2	..	..
Algebra	192	2	2	..	..
Calculus	193	2	2	..	..
Mechanics	194	2	2	..	..
Analytical Geometry	195	2	..	..	..
Physics and Laboratory	311-312	3	3	2	2
Surveying	345	..	2	..	..
*Surveying Field Work	347	..	..	..	..
Total hours		16	18	13	13

*This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year examinations. (See pages 430 and 457).

Any undergraduate student of the First Year, who at the close of the first term had failed to obtain an average of 33 per cent in calculus, chemistry, mechanics, analytical geometry, algebra, physics, and descriptive geometry, may be required to withdraw from the Faculty.

Any other student of the First, or any subsequent Year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year taking the course for the first time, who have pursued their courses of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the First Year, in which standing is determined by sessional examinations, or in four such subjects aggregating 350 possible marks or over, are required to repeat the work of the First Year, and while so doing are debarred from taking any more advanced work.

The subjects of instruction in the Second Year of the Engineering Courses (III to VII), except in Architecture, Chemical Engineering, Metallurgical Engineering and Mining Engineering, and the number of hours per week devoted to each are as follows:—

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Problems	80A	..	1	..	2
Engineering Reports	136	1	1	..	..
Mapping	348	..	..	6	..
Materials of Engineering	81	1	1	..	..
Calculus	198	2	2	..	..
Mechanical Drawing	344	..	..	3	3
Mechanics	83	2	2	2	2
Mechanics of Machines	218	..	1	..	3
General Geology	141	2	2	3	2
Physics and Laboratory	315-316	2	2	3	3
Surveying	346	2	..	..	..
*Surveying Field Work	347	..	..	..	..
Summer Essay	132	..	..	..	..
Total hours		12	12	17	15

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April (about April 27th) (see pages 430 and 457). In the case of students entering from other Universities this wook should be done in a special Summer School before entering the Second Year (see page 431).

All students of the Second Year taking the course for the first time, who have pursued their courses of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, are required to repeat the Second Year.

1. ARCHITECTURE*

The course for the degree of Bachelor of Architecture extends over five years and aims to provide a basic training in the building sciences with particular reference to planning and the structural and mechanical design of buildings. The first year is the regular first year of the Engineering Faculty and is devoted to preparatory mathematics and drawing. During the second, third and fourth years, the subjects of building con-

*This programme will become effective in the session 1944-45. For information regarding the session 1943-44 see the material contained in the Announcement for 1942-43.

struction, structural and mechanical design, history of Western art and architecture, economics, elements of architecture and planning are taken. Courses in sociology, acoustics, plumbing and electricity are given to the combined third and fourth years in alternate years. The work of the fifth year is largely planning and professional practice and the instructors in this year are practicing architects.

FIRST YEAR

As in other Engineering courses (see page 416) with special summer work for students entering the second year (see page 431).

Students may take Architectural Drawing (8) in place of Descriptive Geometry (341) and Mechanical Drawing (340).

SECOND YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Architectural Drawing	9	1	1	3	3
Architectural Essay	31	..	..	..	..
Building Construction I	18	1	1	3	3
Calculus	198	2	2	..	..
Engineering Reports	136	1	1	..	..
Freehand Drawing	27	..	..	3	3
General Geology	141	2	2	3	2
History of Architecture	14	2	2	..	..
History of Art	5	1	1	..	..
Mapping	349	..	..	..	3
Materials of Engineering	81	1	1	..	..
Mechanics	83	2	2	2	2
Surveying	346	2	..	..	..
*Surveying Fieldwork	347	..	..	..	..
Summer Work	35	..	..	..	..
Total hours		15	13	14	16

*Surveying Fieldwork is done in the four weeks immediately following the close of the First Year Examinations in April. In the case of students entering from other universities this work should be done before entering the Second Year in Summer Schools, as shown on page 431.

All students of the Second Year in the School of Architecture who have pursued their courses of study without serious interference due to personal illness, domestic affliction, or urgent affairs, and who fail in subjects aggregating 400 possible marks or over are required to repeat the Second Year.

THIRD YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Aesthetics	6	1	1	..	..
Architectural Essay	32	..	..	..	..
Building Construction II	19	1	1	3	..
Design A	1	1	1	6	3
Economics	171	..	2	..	..
Elements of Structural Design	90	..	1	..	3
Foundations	89	1	1	..	3
Freehand Drawing	28	..	..	3	3
*History of Architecture	15	2	2	..	..
Mechanical Engineering and Lab.	226/228	2	..	3	..
Planning	7	1	1	..	..
*Sociology of the Community	23	3	3	..	..
Strength of Materials and Lab.	87/88	2	2	..	3
Summer Work and Sketching School	36, 26	..	..	..	..
Total hours		14	15	15	15

*Given to the combined Third and Fourth Years in alternate years.

FOURTH YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
*Acoustics	20	2	..	..	..
Architectural Essay	33	..	..	..	..
Design B	2	..	..	6	6
Ecomonics	172	2	..	..	..
*Electricity	20	..	2	..	..
Freehand Drawing	29	..	..	3	3
Heating and Ventilating	247	1	1	3	3
*History of Architecture	16	2	2	..	..
*Plumbing	22	..	2	..	..
Sanitary Science	82	1	1	..	..
Strength of Materials	95	1	2	3	..
Theory of Structures	94	1	2	3	6
Summer Work and Design Schools	37, 1A	..	..	..	..
Total hours		10	12	18	18

*Given to the combined Third and Fourth Years in alternate years.

FIFTH YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Architectural Essay	34	..	..	..	..
Design C	3	..	..	24	24
History of Architecture	17	2	2	..	..
Engineering Law	175	1	1	..	..
Modelling	30	..	..	3	3
Professional Practice	24	..	2	..	..
Specification	25	2	..	..	..
Summer Work and Design School	38, 2A	..	..	..	..
Total hours		5	5	27	27

II. CHEMICAL ENGINEERING

The aim of this Course is to provide a broad fundamental training, which, when supplemented by practical experience, will make the engineer competent to design and operate industrial plants and to understand the processes.

Part of the time in the Second Year is devoted to Chemistry, in addition to general Engineering subjects. In the Third Year, time is divided between Chemistry and Engineering, and Chemical Engineering topics are introduced. The Fourth Year is devoted mostly to Chemistry and Chemical Engineering, including a course in unit operations.

Students must attend two Summer Schools, one in Elementary Quantitative Analysis at the end of the Second Year, and the other in Advanced Quantitative Analysis at the end of the Third Year.

FIRST YEAR

As in other Engineering Departments, except that students do not take the Summer School in Surveying Field Work.

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Problems	80A	..	1	..	2
Engineering Reports	136	1	1	..	..
Calculus	198	2	2	..	..
Materials of Engineering	81	1	1	..	..
Mechanics	83	2	2	2	2
Physics and Laboratory	315-316	2	2	3	3
Elem. Organic Chem. and Laboratory	56-57	3	3	3	3
Inorganic Qualitative Analysis and Laboratory	53	2	..	6	..
Inorganic Quantitative Analysis and Laboratory	54	..	2	..	9
*Inorganic Quantitative Analysis Laboratory	55	..	..	..	..
Summer Essay	132	..	..	..	..
Total hours		13	13	14	19

*Summer School extends over a period of four weeks at the end of the second year course.

All students of the Second Year who have pursued their courses of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, are required to repeat the Second Year.

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
General Elementary Metallurgy	261	1	1	..	..
Mechanical Eng. and Lab.	226, 228	2	2	3	3
Thermodynamics	229	2	2	..	..
Engineering Reports (optional)	137	1	1	..	..
Mineralogy	142A	2	2	..	..
Determinative Mineralogy	143A	..	..	3	..
Strength of Materials and Lab.	87-88	2	2	..	3
Advanced Organic Chem. and Lab.	65	2	2	6	6
Chemical Thermodynamics	76	2	2	..	..
Physical Chemistry	66	1	1	..	..
Elementary Chemical Engineering	63	2	2	..	..
*Advanced Quantitative Analysis and Laboratory	61	..	..	..	..
Summer Essay	133	..	..	..	..
Total hours		16 or 17	19 or 20	12	12

*Summer School extends over a period of four weeks at the end of the third year course.

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Advanced Inorganic Chemistry	72	2	2	..	..
Electrochemistry	70	2	..	..	..
Colloid Chemistry	75	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
Elem. of Electrical Eng. and Lab	111-112	2	2	3	3
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
History of Chemistry (optional)	74	1	1	..	..
Inorganic Chemical Technology	68	2	..	..	..
Organic Chemical Technology	69	..	2	..	..
Physical Chemistry Laboratory	66A	..	..	9	9
Advanced Physical Chemistry	67	2	2	..	..
Chemical Engineering	77	5	5	..	..
Chemical Engineering Laboratory	78	..	..	6	6
Summer Essay	134	..	..	..	..
Total hours		19 or 22	16 or 17	18	18

III. CIVIL ENGINEERING

The courses of study are designed to emphasize the fundamental principles of mechanics, strength of materials, design of structures, and hydraulics, at the same time affording an opportuinity of applying these principles to practical problems ranging widely over the field of civil engineering. A sound foundation is laid for future specialization. The outlook of the student is broadened by courses in Mechanical and in Electrical Engineering. In the designing courses special attention is given to the interpretation and critical discussion of specifications and to the economic principles involved. Students are recommended to obtain practical experience during the summer vacations, and are especially recommended to spend at least one vacation in a drafting office.

First and Second Years

As in other Engineering Courses (see pages 416 and 417), with additional Summer School for students entering Third Year (see page 430).

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Foundations	89	1	1	..	3
Engineering Reports (optional)	137	1	1	..	..
Hydraulics and Laboratory	97-98	2	..	3	..
*Map Projections (alternate)	351	..	..	3	..
Mechanical Engineering and Lab	226, 228	2	2	3	3
Mechanics	86	1	1	..	..
Railway and Highway Engineering	92	2	1	6	3
*Sanitary Science (alternate)	82	1	..	..	..
Strength of Materials and Lab	87-88	2	2	..	3
Elementary Structural Design	90	..	1	..	3
Surveying	353	2	2	..	..
Surveying Field Work	154	..	..	..	..
Summer Essay	133	..	..	..	..
Total hours		12 or 14	12 or 13	12 or 15	15

*Map Projections (351) is alternative with Sanitary Science (82).

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Elements of Elec. Eng. and Lab.	111-112	2	2	3	3
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
Geodesy and Laboratory	359-360	2	..	3	..
†Geodetic Field Work	361	..	..	..	..
Strength of Materials	95	1	2	3	..
Theory of Structures	94	1	2	3	6
Bridge Design	96	2	2	6	6
Hydraulic Machines	99	..	2	..	..
Municipal Engineering	101	2	2	..	3
Waste Disposal	103	1	..	..	..
Summer Essay	134	..	..	..	..
Total hours		14 or 16	13 or 14	18	18

†See page 430.

IV. ELECTRICAL ENGINEERING

The Third Year of the Electrical Engineering course provides the student with a broad engineering training. Courses in mechanical engineering, thermodynamics, and strength of materials occupy a large place in the curriculum, although the greatest emphasis in placed on the study of the principles of Electrical Engineering.

The course in Electrical Engineering theory includes a study of electro-magnetism and of the electric circuit, followed by an analysis of the theory and characteristics of direct current machinery. A study is made of alternating current flow in single-phase and polyphase circuits, and a short introduction to the theory of thermionic tubes and their application is given. This training is applied in the laboratory and in the solution of problems. Courses in differential equations and in molecular physics prepare the student for the electrical circuit theory and electrical communication courses of the Fourth Year.

The Fourth Year is devoted almost entirely to electrical studies in the two main fields of Power Engineering and Communication Engineering.

Courses in the power engineering field cover the generation, transmission and distribution of electric power; direct and alternating current phenomena; electrical machinery; electric lighting; electric traction systems, hydro electric power development; electrical measurement and electro-chemistry.

Courses in communication engineering cover the theory and applications of thermionic tubes, transmission theory and radio engineering. These are supplemented by laboratory work in audio- and radio-frequency measurements and by design, construction and testing of communication apparatus.

When a student enters the fourth year he may elect to specialize in communication engineering, in which case he will omit courses (97) and (98) Hydraulics and Laboratory in the first term and course (123) Applications of Electricity in the second term and take in their place extra work in communication engineering. Extra laboratory instruction and a course in radio design will replace six hours per week of time usually included in courses (118) Electrical Engineering Laboratory and (122) Electrical Design and Problems.

First and Second Years

As in other Engineering Courses. (See pages 416 and 417).

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Differential Equations	201	2	2	..	..
Economics	171	..	2	..	..
Elctrical Engineering	113	4	4	..	..
Electrical Eng. Laboratory	114	..	..	12	12
Engineering Reports (optional)	137	1	1	..	..
Machine Design	225	2	2	..	..
Mechanical Engineering and Lab.	226, 228	2	2	3	3
Mechanics	86	1	1	..	..
Thermodynamics	229	2	2	..	..
Strength of Materials and Lab.	87-88	2	2	..	3
*Physics	318	2	..	..	..
Summer Essay	133	..	..	..	..
Total hours		17 or 18	17 or 18	15	18

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Electrical Design and Problems	122	1	1	3	6P-3C
Elctrical Engineering	117	4	4	..	..
Electrical Measurements and Lab.	134	2	..	2	3
Electrical Engineering Laboratory	118	..	..	7	9P-6C
Thermionic Tube Theory	125	2	..	3	..
Communication Eng. (Wire)	126	..	2	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
Applications of Electricity	123	..	3P	..	..
Electric Light and Power Dist.	120	2	..	..	..
Hydraulics and Laboratory	97-98	2P	..	3P	..
Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Summer Essay	134	..	..	..	..
Communication Eng. (Radio)	127	2C	3C	3C	6C
And One of					
Hydraulic Machines	99	..	2	..	..
Machine Design	243	..	2	..	..
Electro Metallurgy	275	3	..	..	..
Thermionic Tube Applications	128	..	2	..	..
Time hrs. per week	P	16 or 21	11 or 14	18	18
	C	16 or 21	11 or 14	18	18

P—Power Option.
C—Communications Option.
*Physics (318)—Due to war conditions this may have to be given in the second term.

V. MECHANICAL ENGINEERING

In the fourth year there are three options: 1st, Industrial Engineering; 2nd, Thermodynamics; and 3rd, Mechanics of Machines. In preparation for one of these courses, undergraduates entering the third year elect to take either Accounting or Mechanics of Machines; Accounting being prerequisite to Industrial Engineering, and Mechanics of Machines prerequisite to the other two. If postgraduate work in aeronautics is contemplated, in addition to the first option (Mechanics of Machines), Calculus is taken in the Third Year and Strength of Materials in the Fourth Year, if the timetable will permit.

The subjects of instruction in this Department are of interest to students who are likely to take up work connected with:—

(a) The engineering of production, including industrial engineering; (b) steam engineering; (c) internal combustion engines; (d) power plant engineering; (e) heating and ventilation; (f) aeronautics and aerodynamics.

Instruction is given during the Third and Fourth Years in mechanical engineering applied to power installation and prime movers. This work is supplementary to thermodynamics, mechanics of machines and machine design, and leads to power plant design, industrial plant design and works organization.

Workshop practice instruction is given in the Third and Fourth Years to prepare for that practical experience which every mechanical engineer must obtain for himself.

The course in thermodynamics deals with the theory of heat engines, including graphical and experimental work.

Arrangements are made for occasional visits to power plants and factories of importance.

First and Second Years

As in other Engineering Courses (see pages 416 and 417), with additional Summer School for students entering Third Year. (See page 430).

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Elements of Elect. Eng. and Lab.	111-112	2	2	3	3
Engineering Reports (optional)	137	1	1	..	..
Industrial Engineering	237	2	..	..	..
Machine Design	25	2	2	..	..
Mechanical Drawing	231	..	..	3	3
Mechanical Eng. and Laboratory	227-228	3	3	3	3
Mechanics	86	1	1	..	..
Physical Metallurgy	266	1	..	2	..
Shopwork	236	..	..	3	3
Strengh of Materials and Lab.	87-88	2	2	..	3
Elementary Structural Design	90	..	1	..	3
Thermodynamics	229	2	2	..	..
Summer School	233	..	..	..	..
Summer Essay	133	..	..	..	..
Accounting	238	1	1	2	2
or					
Mechanics of Machines	224	2	2	1	1
**Differential Equations (optional)	201	2	2	..	..
Total hours	A	16 or 17	16 or 17	16	20
	M	17 or 20	17 or 20	15	19

A—Accounting option.
M—Mechanics of Machines option.

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Designing	241	..	..	3	3
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Experimental Engineering	257	1	1	..	..
Heat. and Vent. of Buildings	247	1	1	..	..
Hydraulics and Laboratory	97-98	2	..	3	..
Hydraulic Machines	99	..	2	..	..
Machine Design	242	2	2	..	..
Power and Plant Design	244	1	1	3	3
Shopwork	252	..	..	3	3
Summer Essay	134	..	..	..	..
and					
Industrial Administration	254	..	1	..	3
Industrial Engineering	253	2	2	3	3
Industrial Relations	258	2	..	..	..
Mech. Eng. Laboratory	249A	..	..	6	6
or					
Thermodynamics	251	2	2	..	..
Industrial Administration	254	..	1	..	3
Industrial Relations	258	2	..	..	..
Mech. Eng. Laboratory	249	..	..	9	9
or					
Mech. Eng. Laboratory	249	..	..	9	9
*Mechanics of Machines	240	2	2	1	1
Thermodynamics	251	2	2	..	..
**Strength of Materials (optional)	95A	..	2	..	..
Total hours		14 or 16	12 of 14	21 or 22	19 or 21

*Prerequisite Mechanics of Machines 224.

**Students intending to specialize later in aerodynamics take optional courses in Differential Equations (201) and Strength of Materials (95A).

VI. METALLURGICAL ENGINEERING

The course of instruction provides training in the chemical, physical and engineering subjects that form a basis for metallurgical engineering. In the later years, the various branches of theoretical and practical metallurgy are studied, together with the allied subjects of geology, mineralogy, assaying, mineral-dressing and mining engineering.

The course is designed for students who expect to be engaged in the smelting or refining of metals, the production of iron or steel, the melting and casting of metals and alloys, or in engineering work in which the physical properties and heat-treatment of metals and alloys are of fundamental importance.

In the Second Year instruction is given in calculus, mechanics, physics, geology, mineralogy, surveying, materials of engineering, inorganic qualitative analysis, engineering problems, mapping and mechanical drawing.

In the Third Year instruction is given in economics, chemistry, assaying, mining, mineral-dressing, metallurgy, and mechanical and structural engineering.

A Metallurgical Field School is held after the April examinations of the Third Year. This school visits metallurgical plants and studies the design and operation of each

Students are expected to work in a metallurgical plant during the summer before entering the Fourth Year, and must have had experience in metallurgical works before graduation. (See page 431).

In the Fourth Year instruction is given in chemistry, engineering law, economics, hydraulics, metallurgy, electrometallurgy, metallography, electrical engineering metallurgical designing and mineral-dressing.

Laboratory accommodation is provided for graduate students who wish to do advanced work in metallurgy for the M.Sc. or the M.Eng. degree.

Please refer to page 409 for regulations regarding physical examination.

First Year

As in other Engineering Courses. (See page 416).

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Problems	80A	..	1	..	2
Engineering Reports	136	1	1	..	..
Mapping	349	..	..	..	3
Materials of Engineering	81	1	1	..	..
Calculus	198	2	2	..	..
Mechanical Drawing	343	..	..	..	3
Mechanics	83	2	2	2	2
Physics and Laboratory	315-316	2	2	3	3
Inorganic Qualitative Analysis and Laboratory	53	2	..	6	..
Geology, General	141	2	2	3	2
Mineralogy	142	2	2	..	..
Determinative Mineralogy	143	..	..	2	2
Surveying	346	2	..	..	..
*Surveying Field Work	347	..	..	..	..
Summer Essay	132	..	..	..	..
Total hours		16	13	16	17

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April (about April 27th) (see pages 430 and 458). In the case of students entering from other Universities this work should be done in a special Summer School before entering the Second Year (see page 431).

All students of the Second Year taking the course for the first time, who have pursued their courses of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, are required to repeat the Second Year.

THIRD YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Chemical Thermodynamics	76	2	2	..	..
Physical Chemistry	66	1	1	..	..
Metallurgical Laboratory	262	..	..	..	3
Engineering Reports (optional)	137	1	1	..	..
Fire Assaying and Lab	263-264	1	..	4	..
Inorg. Quant. Anal. and Lab	71	1	..	8	..
Mech. Eng. and Laboratory	226, 228	2	2	3	3
Metallurgical Calculations	265	..	..	2	2
Metallurgy of Iron and Steel	261	1	1	..	..
Mining Engineering	291	2	..	..	..
Mineral Dressing	292	2	2	..	..
Strength of Materials and Lab	87-88	2	2	..	3
Elementary Structural Design	90	..	1	..	3
Summer Essay	133	..	..	..	..
Total hours		14 or 15	13 or 14	17	14

FOURTH YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Advanced Physical Chemistry	67	2	1	..	..
Electrochemistry	70	2	..	..	..
Electrometallurgy	275	..	2	..	..
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
General Metallurgy	271	2	2	..	..
Hydraulics and Laboratory	100	1	..	1½	..
Inorganic Chem. Technology	68	2	..	..	..
Electrical Engineering and Lab	111-112	2	2	3	3
Metallurgy, Advanced	272	2	2	..	..
Metallurgical Thesis	274	..	..	3	9
Metallurgical Colloquium	277	..	1	..	..
Metallurgical Problems and Design	278	..	2	3	3
Metallurgical Analysis	279	..	..	3	..
Metallography and Laboratory	280-281	2	2	..	3
Mineral Dressing and Laboratory	300, 305	2	1	3	..
*Metallurgical Field School	268	..	..	..	..
Summer Essay	134	..	..	..	..
Total hours		20 or 22	16 or 17	16½	18

*Metallurgical Field School (268) is taken at the end of the Third Year. See page 453.

VII. MINING ENGINEERING

In the Second Year instruction is given in calculus, mechanics, physics, geology, mineralogy, surveying, materials of engineering, inorganic qualitative analysis, engineering problems, mapping and mechanical drawing.

The Third Year is largely devoted to applied mechanics, structural design, electrical engineering, mechanical engineering, surveying, petrography, applied geology and geophysics, but courses of special interest to Mining Engineers are introduced in mineral-dressing, elementary mining and metallurgy.

In the Fourth Year instruction is given in mining, mineral-dressing, economic geology and metallurgy, including nearly three full days per week in laboratores and drafting room. In the second term each student prepares a thesis on an experimental investigation, and works on problems in mine design.

A Field School in mining, mineral-dressing and geology is held between the Third and Fourth Years, beginning immediately after the close of the April examinations. Students are taken on a trip to some important mining district where mines and plants are studied.

Facilities are available for graduate students who wish to do advanced work in mining or mineral-dressing, and the Department possesses three Research Fellowships open to graduates who show ability. (See Scholarships Announcement.)

Please refer to page 409 for regulations regarding physical examination.

First and Second Years

First Year, same as other Engineering Courses (see page 416), and Second Year, same as course in Metallurgical Engineering (see page 427), with additional Summer Schools for students, entering Third Year (see page 430).

THIRD YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Engineering Reports (optional)	137	1	1	..	..
Electrical Engineering and Lab.	111-112	2	2	3	3
Fire Assaying and Laboratory	263-264	1	..	4	..
Geology, Practical and Field	147	2	..	3	..
Inorg. Quant. Anal. and Lab.	71	1	..	8	..
Mapping	350	..	..	..	2
Mech. Eng. and Laboratory	226, 228	2	2	3	3
Metallurgy of Iron and Steel	261	1	1	..	..
Mineral Dressing	292	2	2	..	..
Mining Engineering	291	2	..	..	..
Petrography and Laboratory	146	..	2	..	3
Strength of Materials and Lab.	87-88	2	2	..	3
Structural Design, Elementary	90	..	1	..	3
Surveying	352	..	2	..	..
*Surveying Field Work	354	..	..	..	..
Summer Essay	133	..	..	..	..
Total hours		15 or 16	16 or 17	21	17

*See page 458.

FOURTH YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Applied Geophysics	320	2	..	..	..
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Fire Assaying and Laboratory	263-264	1	..	4	..
Geology of Canada	149	..	2	..	3
Hydraulics and Laboratory	100	1	..	1½	..
Industrial Administration (optional)	254	..	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Metallurgical Analysis	279	..	..	3	..
Metallurgical Calculations	265	..	..	2	2
Metallurgy, General	284	2	2	..	..
Metallurgical Laboratory	271	..	..	..	3
Mine Design	298	..	..	3	6
Mineral Dressing	300	2	1	..	..
Mineral Dress., Lab. and Thesis	307	..	..	3	7
Mining Colloquium	301	..	1	..	..
Mining Engineering	297	2	3	..	..
Mine Mapping	293	..	..	2	..
Ore Deposits	148	..	4	..	..
Mining Field School	294	..	..	..	..
Summer Essay	134	..	..	..	..
Total hours		13 or 15	14 or 15	18½	21

NOTE.—Surveying Field Work, between the Second and Third Years. See page 430. Mining Field School at end of Third Year. See page 452.

SUMMER SCHOOLS

Undergraduates are required to attend Summer Schools as specified below. These are held immediately after the April sessional examinations, and the work is set forth in detail under the subject numbers referred to.

See note under fees, page 411.

Except as noted, classes are expected to begin on or about April 27th and close about May 23rd.

COURSE	Students entering Second Year		Students entering Third Year		Students entering Fourth Year (and Fifth Year Architecture)	
	Subject No.	Page	Subject No.	Page	Subject No.	Page
Architecture	347	457	† 26	437	1A, 2A	435
Chemical Engineering	...	...	55	438	61	438
Civil Engineering	347	457	354	458	361	458
Electrical Engineering	347	457	....	....	...	...
Mechanical Engineering	347	457	*233	448	...	...
Metallurgical Engineering	347	457	....	....	268	453
Mining Engineering	347	457	354	458	294	452

*This school will commence on September 1st, extend over a period of four weeks and be held with the Special Summer Schools. See pars. (a), (b) and (c) below.

†A Sketching School is taken by students entering the third, fourth and fifth years in Architecture. It will commence on September 6th, and extend over a period of two weeks.

Note—Special Summer Schools

As it is seldom practicable for students admitted to advanced standing in McGill University from other colleges to attend the May Summer School preceding the work of the year to which they are admitted, the following arrangements have been made for such students, but it must be understood that, except as noted in the table above, they apply only to students who have not previously been in attendance in the Faculty of Engineering.

(a) Students entering the Second Year, except in Chemical Engineering, are required to attend a special Summer School in Surveying which extends from September 16th to 27th, inclusive, preceding the work of the Session. Additional work may be required in the following year, if necessary, to cover the course. (See page 457.)

(b) Students entering the Third Year of the course in Mechanical Engineering will be required to attend a Summer School in Mechanical Deawing and Machine Shop Work extending over a period of four weeks, commencing September 1st.

(c) Students entering the Third Year in the courses in Civil and in Mining Engineering and the Fourth Year in Civil Engineering are required to attend a Special Summer School in Surveying from September 16th to 27th, inclusive, and in these courses further work in Surveying, to be specified by the Chairman of the Department, is required for a portion of the month of May following.

(d) Students entering the Second Year or any subsequent year in the School of Architecture must submit evidence satisfactory to the Director that they have done work equivalent to that of the regular scheduled Summer Schools.

(e) Students entering the Fourth Year in the courses in Mining and Metallurgical Engineering are required to submit evidence that they have had practical experience in mining and metallurgical work at least equivalent in extent to the work done in the regular Summer Schools in these courses, and should by correspondence in the preceding spring secure the approval of the Chairman of the Department concerned of the work which they propose to offer in place of the regular summer work.

SUMMER WORK AND SUMMER ESSAYS

Students in Engineering are required to submit to the Faculty evidence of having had at least six months of experience in practical engineering work before receiving their degrees (see page 415). Evidence of such employment must be submitted on forms obtainable at the Dean's Office, to be signed by the employer, and handed in at the office not later than 1 p.m., Saturday, October 30th, 1943.

A similar regulation applies to students in Architecture.

GENERAL REQUIREMENTS

Essays are regarded as a very important part of the curriculum and a high standard is exacted. They are judged on their subject matter, literary style and the evidence they show of thoughtful preparation.

The most acceptable subject for an essay is a critical description of the work on which the student is engaged during the summer, but a description of any engineering, scientific or industrial work with which he is familiar will be accepted. Students who secure summer engagements in engineering work should take advantage of every opportunity to gather material suitable for an essay.

No essay compiled from books alone will be accepted unless the student has obtained in advance the written approval of the Chairman of his Department. Information obtained from books and other sources may, however, be used or even quoted verbatim, provided full acknowledgment is made and all quotations enclosed in quotation marks. Similarly, drawings, blue prints, etc., may be included in the essay, provided full acknowledgment is made.

The student should be particularly careful to make acknowledgment of information or drawings regarding matters which have not come within his personal experience, by means of a letter attached to the essay.

Essays should normally be from 2,000 to 5,000 words in length. They should be illustrated by drawings, sketches, and, when desirable, by photographs, specimens, etc., and MUST BE TYPEWRITTEN on paper of substantial quality and 8¼ x 11 inches in size.

Essays, with the exception of those which require consideration by the Committee on English because of literary defects, or those which are considered eligible for prizes, will be returned to students on or before December 1st. Students are encouraged to submit their essys to the Engineering Institute of Canada or to the Canadian Institute of Mining and Metallurgy, in competition for students' prizes offered by these Institutes.

All summer essays must be handed in at the Dean's Office not later than 1 p.m., Saturday, October 30th, 1943.

STUDENTS IN ARCHITECTURE

During each summer vacation students are required to obtain at least six weeks' practical experience satisfactory to the Faculty and students are required to prepare a report of about 3,000 words upon their summer employment. Rules governing these reports are as stated above for essays.

In addition, students entering the various years are required to fulfil the following requirements:—

THIRD YEAR

Obtain a satisfactory standing in the special sketching and drawing school held in the four weeks immediately following the close of the second year examinations in April.

Fourth and Fifth Years

Obtain a satisfactory standing in the special design schools held in the four weeks immediately following the close of the third and fourth year examinations in April.

STUDENTS IN ENGINEERING

Second Year

132. Students entering the Second Year must submit an essay. The essay, which should be approximately 2,000 words in length, must be illustrated and must conform to the requirements for essays stated above.

Students who are not engaged during the summer in engineering, scientific or industrial work that would be a suitable subject for an essay, may write on one of the following subjects: (1) War-time Military Training in the Universities; (2) The St. Lawrence Waterway; (3) The Function of a Ministry of Information in War-time; (4) What can the Engineer Do in Government, Industry and the Services in War-time?

Third Year

133. Students entering the Third Year must submit an easay, preferably on engineering work in which they have been engaged.

Essays must conform to the requirements stated above except that they may be somewhat shorter, but not less than 2,000 words in length.

Students who are not engaged during the summer in suitable engineering, scientific or industrial work are advised themselves to choose a subject for an essay, in consultation with the Chairman of their Department, or they may write on one of the following:—

Chemical Engineering.—(1) The Refining of Petroleum ;(2) The Solvay Process for Soda Manufacturing; (3) Manufacture of Contact Sulphuric Acid.

Civil Engineering.—(1) Historical Development of Trussed Frameworks; (2) Historical Development of Reinforced Concrete; (3) Ancient and Modern Water Supplies.

Electrical Engineering.—The Application of Electric Power to Industrial Establishments.

Mechanical Engineering.—(1) Powdered Fuel for Power Production; (2) Pulp and Paper Manufacture; (3) Shop Management.

Metallurgical Engineering.—(1) Roasting Sulphide Concentrates; (2) Reverberatory Copper Smelting; (3) Heat Treatment of Steel.

Mining Engineering.—(1) Explosives Used in Mining; (2) Hoisting from Mines; (3) Mucking and Transportation in Mines; (4) The Cyanide Process for Extraction of Minerals from Ores.

Fourth Year

134. Students entering the Fourth Year are required to submit an essay, preferably on engineering work in which they have been engaged. Students who are not engaged in suitable work may write on one of the following subjects, or preferably on an engineering subject approved by the Chairman of their Department.

Chemical Engineering.—(1) Nitrogen Fixation Industries; (2) Kraft Pulp; or Sulphite Pulp; or Viscose Rayon; (3) Economic Factors in Chemical Industries; (4) Electrolytic Caustic and Chlorine.

Civil Engineering.—(1) Welding of Structural Steel; (2) High-Early-Strength Concrete; (3) Aerial Surveying; (4) Small-Town Sewage Disposal Plants; (5) A Short History of Soil Mechanics.

Electrical Engineering.—(1) Applications of Electricity to any Particular Branch of Industry, or to Industry in General; (2) Applications of Thermionic Tubes to Electrical Communication and to Industry; (3) Electrification of Railways; (4) The Insulation of Underground Cables or of Overhead Lines; (5) The Magnetic Properties of Iron and its Alloys.

Mechanical Engineering.—(1) Power Costs; (2) Central Station Heating; (3) Methods of Increasing Production in Manufacturing; (4) Diesel-driven Motor Buses.

Metallurgical Engineering.—(1) The Treatment, Uses and Disposal of Gases from Metallurgical Furnaces; (2) The Economic Use of Electric Power in Metallurgical Furnaces; (3) Corrosion-resisting Alloy Steels; (4) Electro-metallurgical Industries.

Mining Engineering.—(1) Prospecting and Exploration of Mineral Deposits; (2) Mine Drainage; (3) The Flotation Process for Ore Concentration; (4) Compressed Air and its Application to Mining; (5) Mineral Production and its Effect on Industrial Development.

Essays must conform in all respects to the requirements stated on page 431.

SUBJECTS OF INSTRUCTION

The following courses in Architecture and Engineering are subject to modification during the year, as the Advisory Committee on Architecture or the Faculty may deem advisable.

SCHOOL OF ARCHITECTURE

Director and Associate Professor.....JOHN BLAND

Associate Professor.....R. DEL. FRENCH, of the Department of Civil Engineering.

Sessional Lecturers.....H. L. FETHERSTONHAUGH, H. R. LITTLE, ARTHUR LISMER

Special Instructors.....J. C. McDOUGALL, GORDON WEBBER

Advisory Committee (see page 405).

1. DESIGN, CLASS A (P. 9, 18). The design of simple structure and domestic buildings. 24 lectures, 36 draughting periods.
Professor Bland.

1A Four weeks following sessional examinations in April are devoted to continuous design problems.

2. DESIGN, CLASS B (P. 1, 1A, 7, 19, 90). The design of public buildings with details of construction. 48 draughting periods.
Mr. Fetherstonhaugh.

2A Four weeks following sessional examinations in April are devoted to continuous design problems.

3. DESIGN, CLASS C (P. 2, 2A, 94). Problems involving structure, and layout of complex buildings and groups of buildings. The diploma design for graduation is done in the second term.
Mr. Fetherstonhaugh.

5. HISTORY OF ART. 24 lectures.....Dr. Lismer.

6. ÆSTHETICS. 24 lectures.....Dr. Lismer.

7. PLANNING. 24 lectures.....Professor Bland.
Text Books: Sert, Can our Cities Survive (Harvard).
Roth, New Architecture (Girsberger).

8. ARCHITECTURAL DRAWING I. (Descriptive Geometry and Perspective). 24 lectures and 72 draughting periods.
Professor Bland.

P—Prerequisite.

9. Architectural Drawing II. (Line and Colour). 24 lectures and 48 draughting periods. Professor Bland and Mr. Webber.

14. Ancient and Classical Architecture. 48 lectures. Professor Bland.

Text Books:—Bannister Fletcher, History of Architecture (Batsford); Zimmern, Greek Commonwealth (Oxford); Dickinson, Greek View of Life (Oxford); Mitchison, Corn King and Spring Queen (Cape); Carcopino, Daily Life in Ancient Rome (Routledge).

15. Mediaeval Architecture. 48 lectures.....Professor Bland.

Text Books:—Power, Mediaeval Architecture (Talbot); Power, Mediaeval People (Methuen); Prior, History of Gothic Art in England (Bill). Given in alternate years.

16. Renaissance Architecture. 48 lectures.....Professor Bland.

Text Books:—Anderson, Italian Renaissance Architecture (Batsford); Ward, French Renaissance Architecture (Batsford); Gotch, Architecture of the Renaissance in England (Batsford). Given in alternate years.

17. Modern Architecture. 48 lectures.....Professor Bland.

Text Books:—Clark, Gothic Rivival (Constable); Hammond, Rise of Modern Industry (Methuen); Mumford, Culture of Cities (Secker and Warburg); Giedion, Space, Time and Architecture (Harvard).

18. Building Construction I. (P. 340 or 8). 24 lectures, 24 draughting periods.....Mr. Little.

Text Books:—Frame Construction Details (Nat. Lumber Mfg. Assn.); Manual of Face Brick Construction (American Face Brick Assn.); Huntington, Building Construction (Wiley).

19. Building Construction II. (P. 18). 24 lectures, 24 draughting periods.....Mr. Little.

Text Books:—Huntington, Building Construction (Wiley); Gay and Parker, Materials and Methods of Architectural Construction (Wiley).

20. Electricity. (P. 311-312). 24 lectures.....Professor Wallace. (Given in alternate years.)

21. Acoustics. (P. 311-312). 24 lectures.....Professor Reilley. (Given in alternate years.)

22. Plumbing. (P. 311-312). 24 lectures.....To be appointed. (Given in alternate years.)

23. Sociology, The Community. 72 lectures.....Professor Dawson. (Given in alternate years.)

P—Prerequisite.

24. PROFESSIONAL PRACTICE. 24 lectures.....Mr. McDougall.
Text Books:—A.I.A. Handbook of Architectural Practice; Architects' Law Manual (Pencil Points Press); P.Q.A.A., R.A.I.C. and A.I.A. Standard Documents.

25. SPECIFICATIONS. 24 lectures.....Mr. Little.
Text Books:—Sleeper, Architectural Specifications (Wiley).

26. SKETCHING SCHOOL. Four week period after the end of sessional examinations in April.....Mr. Webber.

27, 28, 29, 30. FREEHAND DRAWING, RENDERING AND MODELLING STUDIO WORK (classes in the Art Association).....Mr. Webber.

31, 32, 33, 34. AN ESSAY, prepared during the session, on an historical or a theoretical subject, is required each year from all students except those of the first year.

35, 36, 37, 38. SUMMER WORK.

Before the degree is granted the student must have had at least six months' experience satisfactory to the Faculty. (See pages 415 and 431.)

During each summer the student must prepare a report of about 3,000 words upon his summer employment.

In addition for students entering the Third Year there is a sketching school held in the four weeks immediately following the close of the Second Year examinations in April.

And for students entering the Fourth and Fifth Years there is a design school held in the four weeks immediately following the close of the Third and Fourth Year examinations in April.

DEPARTMENT OF CHEMISTRY

Professors	O. MAASS HAROLD HIBBERT W. H. HATCHER
Associate Professors	J. B. PHILLIPS* J. H. MENNIE W. H. BARNES
Assistant Professors	C. A. WINKLER R. V. V. NICHOLLS
Lecturers	J. H. ROSS J. H. HOLDEN
Sessional Lecturer	R. BOYER
Demonstrators and Graduates Assistants	To be appointed.

FIRST YEAR LECTURES AND LABORATORY.

51. ELEMENTARY PHYSICAL CHEMISTRY AND LABORATORY. Two lectures and one one-hour problem period per week.

Professor Barnes and Demonstrator.

Text Books:—Maass & Steacie, Introduction to the Principles of Physical Chemistry, Second Edition (Wiley).

*On leave of absence for war work.

SECOND YEAR LECTURES AND LABORATORY.

53. INORGANIC QUALITATIVE ANALYSIS AND LABORATORY. (Arts and Science 3a). (P. 51). Two lectures and six hours laboratory per week, first term.....Professor Mennie.

Text-book:—Curtman, Qualitative Chemical Analysis (Macmillan).

54. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. (Arts and Science 3b). (P. 51). Two lectures and nine hours laboratory per week, second term.....Professor Mennie.

55. INORGANIC QUANTITATIVE ANALYSIS LABORATORY. Four weeks summer school. (See page 431).....Professor Mennie.

56. ORGANIC CHEMISTRY. (Arts and Science 2.) (C. 57.) Three lectures per week.....Dr. Boyer.

Text-books:—Lucas, Organic Chemistry (American Book Co.); Wertheim, Introductory Organic Chemistry (Blakiston).

57. ORGANIC CHEMISTRY LABORATORY. (Arts and Science 2.) (C. 56.) Three hours per week.....Professor Hatcher and Mr. Boyer.

THIRD YEAR LECTURES AND LABORATORY.

61. ADVANCED QUANTITATIVE ANALYSIS AND LABORATORY. (P. 54 and 55). Four weeks summer school. (See page 431). Professor Mennie.

*63. ELEMENTARY CHIMICAL ENGINEERING. (P. 51). Two lectures per week.....Professor Phillips and Mr. Holden.

*65. ADVANCED ORGANIC CHEMISTRY AND LABORATORY. (Arts and Science 5). (P. 56). Two lectures and six hours laboratory per week. Professor Nicholls.

*66. PHYSICAL CHEMISTRY. (P. 51, C. 76.) (Arts and Science 7, 12.) One lecture per week.....Professor Winkler.

Text-book:—Loeb, Kinetic Theory of Gases (McGraw-Hill).

71. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. (P. 53). One lecture and eight hours laboratory per week, first term. Professor Mennie.

This course is available for students in the Department of Geology in the Faculty of Arts and Science.

*76. CHEMICAL THERMODYNAMICS. (Arts and Science 17). (P. 51, C. 66.) Two lectures per week (Taken in III and IV years 1942-43.) Professor Winkler.

Text-books:—Steiner, Introduction to Chemical Thermodynamics (McGraw-Hill); Lewis & Randall, Thermodynamics (McGraw-Hill).

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*Courses marked with a star are open to graduates as well as undergraduates.

P—Prerequisite. C—Concurrent.

FOURTH YEAR LECTURES AND LABORATORY.

*66A. PHYSICAL AND COLLOID CHEMISTRY LABORATORY. (P. 66, 76.) (C. 67, 75.) (Arts and Science 7L.) Nine hours laboratory per week.
Professor Winkler and Demonstrator.

Text-books:—Daniels, Matthews and Williams, Experimental Physical Chemistry (McGraw-Hill).

67. ADVANCED PHYSICAL CHEMISTRY. (P. 66, 76.) Two lectures per week.....Professor Winkler.

Text-book:—Hinshelwood, Kinetics of Chemical Change (Oxford).

*68. INORGANIC CHEMICAL TECHNOLOGY. Two lectures per week, first term.....Professor Phillips.

*69. ORGANIC CHEMICAL TECHNOLOGY. Two lectures per week. second term.....Professor Phillips.

69A. CHEMISTRY AND TECHNOLOGY OF HIGH POLYMERS. Two lectures per week. Second term. (Alternative to Engineering 69, 1942-43.)
Professor Nicholls.

*70. ELECTROCHEMISTRY. (Arts and Science 11). Two lectures per week. First term.....Professor Mennie.

Reference books:—Creigson, Electrochemistry (Wiley); Allmand, Applied Electrochemistry (Arnold); Glasstone, Electrochemistry of Solutions (Methuen).

*72. ADVANCED INORGANIC CHEMISTRY. (Arts and Science 6). Two lectures per week.....Professor Mennie.

*74. HISTORY OF CHEMISTRY. (Arts and Science 9). One lecture per week, optional. (Not given in 1943-44).....Professor Barnes.

Text-book:—Partington, A Short History of Chemistry (Macmillan).

*75. COLLOID CHEMISTRY. (Arts and Science 15). One lecture per week (Laboratory work, see 66A).....Professor Winkler.

Text-books:—Hartmans Colloid Chemistry (Houghton-Mifflin); Lewis, Squires and Broughton, Industrial Chemistry of Colloidal and Amorphous Materials (Macmillan).

*77. CHEMICAL ENGINEERING. (P. 63, C. 78). Five lectures per week.....Professor Phillips and Mr. Holden.

Text-book:—Walker, Lewis, McAdams and Gilliland, Principles of Chemical Engineering (McGraw-Hill).

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*Subjects marked with a star are open to graduates as well as undergraduates.

P—Prerequisite. C—Concurrent.

78. Chemical Engineering Laboratory. (C. 77). Six hours per week.....Professor Phillips and Mr. Holden.

Graduates in Chemical Engineering may proceed, if their work has been of sufficient high standard, to the Master's degree in Chemistry or in Chemical Engineering. See Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

Professors.....E. Brown, R. DeL. French, R. E. Jamieson*
Associate Professor.....G. J. Dodd
Assistant Professor.....F. M. Wood
Assistant in Charge of Testing Laboratory.....S. D. MacNab

First Year

80. Engineering Problems. Three hours per week.
Professor Dodd and Staff.

194. Mechanics. Two lectures per week.
Professors Brown and Wood.

Text-book:—Mimeographed notes.

194A. Mechanics Problems (Architecture). Three hours per week.
Professor Wood.

Second Year.

80A. Engineering Problems. One lecture and two hours' problems per week, second term.....Professor Phillips and Staff.

81. Materials of Engineering. One hour per week.
Professors French and Sproule.

Text-book:—Mimeographed notes.

83. Mechanics. (P. 194, C. 198). Two lectures and two hours' problems per week.....Professors Dodd and Wood.

Text-books:—Poorman, Applied Mechanics (McGraw-Hill); Girvin, Applied Mechanics (Int. Textbook Co.).

Third Year.

86. Mechanics. (P. 83, 198). One lecture per week.
Professor Wood.

Text-books:—Worthington, Dynamics of Rotation (Longmans Green); Poorman, Applied Mechanics (McGraw-Hill).

P—Prerequisite. C—Concurrent.
*On leave of absence for war work.

87. Strength of Materials. (P. 83, 198). Two lectures per week. Professors Brown and Dodd.

Text-books:—Morley, Strength of Materials (Longmans Green); Case, Strength of Materials (Arnold); Timoshenko-MacCullough; Elements of Strength of Materials (Van Nostrand).

88. Strength of Materials Laboratory. (C. 87). Three hours per week, second term.....Professor Dodd and Staff.

89. Foundations. (C. 87). One lecture per week, session; three hours problems per week, second term.....Professor Dodd.

Text-book:—Jacoby and Davis, Foundations of Bridges and Buildings (McGraw-Hill).

90. Elements of Structural Design. (C. 87). One lecture and three hours problems per week, second term.....Professor Dodd.

Trxt-books:—Ketchum, Structural Engineer's Handbook (McGraw-Hill); Ketchum, Mill Buildings (McGraw-Hill); Bishop, Structural Drafting and Design of Details (Wiley); Grinter, Design of Modern Steel Structures (Macmillan); Steel Construction (American Institute of Steel Construction); C.E.S.A. Standard Specifications for Steel Structures for Buildings.

92. Railway and Highway Engineering. (P. 83, 346, 347, 348). Two lectures and six hours laboratory, first term; one lecture and three hours laboratory, second term.....Professors French and Wood.

Text-books:—Allen, Railway Curves and Earthwork (McGraw-Hill); Williams, Design of Railway Location (Wiley); Tratman, Railway Track and Trackwork (McGraw-Hill); Bruce, Highway Design and Construction (Int. Textbook Co.).

97. Hydraulics. (P. 83). Two hours per week, first term. Professor Brown.

Text-books:—Schoder and Dawson, Hydraulics (McGraw-Hill); Gibson, Hydraulics and its Applications (Constable); King, Wisler and Woodburn, Hydraulics (John Wiley & Sons).

98. Hydraulics Laboratory. (C. 97.) Three hours per week, first term.....Professor Wood.

82. Sanitary Science. One hour per week, first term. Professor Macdonald.

Fourth Year.

94. Theory of Structures. (P. 87.)

One lecture and three hours problems per week, first term; two lectures and six hours problems per week, second term...Professor Jamieson.

Text-books:—Johnson, Bryan and Turneaure, Modern Framed Structures, Parts I and II (Wiley); Shedd and Vawter, Theory of Simple Structures (McGraw-Hill); Sutherland and Bowman, Structural Theory (Wiley).

P—Prerequisite. C—Concurrent.

95 and 95A. STRENGTH OF MATERIALS. (P. 87.) One lecture and three hours draughting per week, first term; two lectures per week, second term. Professors Brown and Jamieson.

Text-books:—Morley, Strength of Materials (Longmans Green); Case, Strength of Materials (Arnold); Timoshenko and Lessels, Applied Elasticity (W. T. N. S. Press): Turneaure and Maurer, Principles of Reinforced Concrete Construction (Wiley); Urquhart and O'Rourke, Design of Concrete Structures (McGraw-Hill); Standard Specifications for Concrete and Reinforced Concrete.

96. BRIDGE DESIGN. (P. 90, C. 94.) Two lectures and six hours draughting per week, session.....Professor Dodd.

Text-books: — Kirkham, Structural Engineering (McGraw-Hill); Ketchum, Structural Engineers' Handbook (McGraw-Hill); Shedd, Structural Design in Steel (Wiley); Grinter, Design of Modern Steel Structures (Macmillan).

99. HYDRAULIC MACHINES. (C. 97.) Two lectures per week, second term.....Professor Brown.

Text-book:—Creager and Justin, Hydro-Electirc Handbook (Wiley).

100. HYDRAULICS AND LABORATORY. (P. 83.) One lecture per week and six three-hour laboratory periods, first term.....Professor Wood.

Text-books:—King and Wisler, Hydraulics (Wiley); Daugherty, Hydraulics (McGraw-Hill).

101. MUNICIPAL ENGINEERING. (P. 97, 98.) Two lectures per week, session, three hours draughting per week, second term. Professor French.

Text-books:—Turneaure & Russell, Public Water Supplies (Wiley). Metcalf and Eddy, Sewerage and Sewage Disposal (McGraw-Hill).

103. WASTE DISPOSAL. (P. 82.) One lecture per week, first term. Professor French.

Text-book:—Refuse Collection Practice (Am. Pub. Works Assoc.).

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING

Graduate Courses are offered in Statically Indeterminate Structures, Technical Elasticity, Secondary Stresses and Highway Engineering.

For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

DRAWING AND DESCRIPTIVE GEOMETRY

Mechanical Drawing and Lettering directed by Department of Mechanical Engineering.

Descriptive Geometry directed by Department of Surveying and Geodesy.

P—Prerequisite. C—Concurrent.

FIRST YEAR.

340. MECHANICAL DRAWING. Three hours per week.
Professors Klinck and Armstrong.
Text-book:—French, Engineering Drawing (McGraw-Hill).

341. DESCRIPTIVE GEOMETRY. Six hours per week
Professor Arcand.
Text-books:—French, Engineering Drawing (McGraw-Hill); W. G. Smith, Practical Descriptive Geometry (McGraw-Hill).

SECOND YEAR.

343. MECHANICAL DRAWING. (P. 340.) Three hours per week, second term.....Professors Klinck and Armstrong.

344. MECHANICAL DRAWING. (P. 340.) Three hours per week.
Professors Klinck and Armstrong.
Text-book:—French, Engineering Drawing (McGraw-Hill).

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor.....C. V. CHRISTIE
Associate Professor.....G. A. WALLACE
Assistant Professor.....E. G. BURR*
Lecturers.....F. S. HOWES, W. H. SCHIPPEL
Demonstrator.....L. E. A. GAREAU

111. ELEMENTS OF ELECTRICAL ENGINEERING. (P. 198, 315.) Two lectures per week.....Professor Wallace.
Text-book:—Gray and Wallace, Principles and Practice of Electrical Engineering (McGraw-Hill).

112. ELECTRICAL ENGINEERING LABORATORY. (C. 111.) Three hours per week.....Mr. Howes.

THIRD YEAR.

113. ELECTRICAL ENGINEERING. (P. 198, 315.) Four hours per week.
Professor Christie.
Text-book:—Christie, Electrical Engineering (McGraw-Hill).

114. ELECTRICAL ENGINEERING LABORATORY. (C. 113.)
Six hours per week Laboratory.....Mr. Schippel.
Six hours per week Problems.....Professor Wallace.

FOURTH YEAR.

117. ELECTRICAL ENGINEERING. (P. 113, 114, 201.) Four lectures per week.....Professor Christie.
Text-book:—Christie, Electrical Engineering (McGraw-Hill).

P—Prerequisite. C—Concurrent.
*On leave of absence for war work.

118. Electrical Engineering Laboratory. (P. 113, 114, C. 117.) Seven hours per week first term; nine hours per week second term, (Power Option); six hours per week, second term (Communication Option).
Mr. Schippel.

120. Electric Lighting and Power Distribution. Two lectures per week, first term.....Mr. Schippel.
Text-book:—Standard Handbook for Electrical Engineers (McGraw-Hill).

122. Electrical Design and Problems. (P. 113, C. 117.) One lecture per week session. Problems three hours per week, first term; six hours per week, second term (Power Option); three hours per week, second term (Communication Option).
Professor Christie and Mr. Schippel.
Text-book:—Gray, Electrical Machine Design (McGraw-Hill).

123. Applications of Electricity. (P. 113, C. 117.) Three lectures per week, second term, (Power Option).....Mr. Schippel.

124. Electrical Measurements and Laboratory. (P. 113.) Two lectures per week, first term; two hours laboratory per week, first term; three hours laboratory per week, second term.....Professor Wallace.

125. Thermionic Tube Theory. Two lectures and three hours laboratory per week, first term.....Dr. Howes.
Text-book:—Terman, Radio Engineering (McGraw-Hill).

126. Communication Engineering (Wire Communication). (P 201, 113.) Two lectures per week, second term.....Professor Wallace.

127. Communication Engineering (Radio). (P. 113.) Two lectures and three hours laboratory per week, first term; three lectures and six hours laboratory per week, second term (Communication Option).
Mr. Howes.

128. Thermionic Tube Applications. (P. 125.) Two hours lectures per week, second term.....Professor Wallace.

Courses for the Degree of Master of Engineering or Master of Science

Graduate courses are offered in Advanced Mathematics, Physics, Electrical Machine Design, Protection of Electrical Power Systems, Stability of Electrical Power Systems, Inductive Co-ordination of Power and Signal Systems, Electric Circuit Analysis, Advanced Wire Transmission Theory, and Ultra-high Frequency Generators and Receivers.

P—Prerequisite. C—Concurrent.

For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

ENGINEERING LAW AND ECONOMICS

Bronfman Professor of Economics.....BEN H. HIGGINS
Associate Professor of Law.....JOHN P. HUMPHREY
Lecturer in Accountancy.....D. R. PATTON

171. ELEMENTS OF POLITICAL ECONOMY. Two hours per week, second term.....Professor Higgins.

Text-book:—Clay, Economics for the General Reader (Macmillan).

172. ENGINEERING ECONOMICS. (P. 171.)

(a) CORPORATION FINANCE.....Mr. Patton.

(b) CANADIAN ECONOMIC PROBLEMS.....Professor Higgins.

Two lectures per week, first term.

175. ENGINEERING LAW. One hour per week..Professor Humphrey.

ENGINEERING PRACTICE

A series of related courses designed to acquaint the student with the historical background of his profession, its relation to other professions and its place in the structure of modern society, the usage of English, both written and spoken, in engineering and business; elementary statistical analysis, etc.

135. HISTORY OF SCIENCE. One lecture per week, session.

136. ENGINEERING REPORTS. One lecture per week, session.

137. ENGINEERING REPORTS. One lecture per week, session.

A bonus of 15 marks is granted to each student who successfully completes 137; this bonus is considered in ranking students, but not in determining whether they have passed their years.

DEPARTMENT OF GEOLOGICAL SCIENCES

Professors.....JOHN J. O'NEILL, R. P. D. GRAHAM, T. H. CLARK
Associate Professors.....J. E. GILL, F. F. OSBORNE
LeRoy Fellow.....

SECOND YEAR.

141. GENERAL GEOLOGY. (Arts and Science I.)

Two lectures and two hours laboratory per week and excursions on Saturday mornings during October.....Professor Clark.

Text-books:—Longwell, Knopf, Flint, Schubert and Dunbar, Outlines of Geology, 2nd Edition, 1941. (Wiley).

P—Prerequisite. C—Concurrent.

142. MINERALOGY. Two lectures per week.....Professor Graham.

143. DETERMINATIVE MINERALOGY. Two laboratory horus per week. Professor Graham.

THIRD YEAR.

142A. MINERALOGY. (Chemical Engineers only). Two lectures per week for the session.....Professor Graham.

143A. DETERMINATIVE MINERALOGY. (Chemical Engineers only). Three hours laboratory per week, first term.....Professor Graham.

146. PETROGRAPHY. (Arts and Science 10. P. 141, 142, 143.) One lecture and three hours laboratory per week, first term; three hours laboratory per week, second term.....Professors Graham and Osborne.

References:—Knopf, Rocks and Rock Minerals (Wiley); Smith, Minerals and the Microscope (Murby).

147. PRACTICAL AND FIELD GEOLOGY. (Arts and Science 7. P. 141.) Two lectures and three hours laboratory per week, first term.
Professor Gill.

FOURTH YEAR.

148. ORE DEPOSITS. (Arts and Science 8. P. 141, C. 147.) Four lectures per week, second term.....Professor O'Neill.

Text-book:—Emmons, Principles of Economic Geology (2nd Ed.), McGraw-Hill.

149. GEOLOGY OF CANADA. (Arts and Science 4 P. 141.) Two lectures and three hours laboratory per week, second term.
Professor Gill.

153. FIELD WORK AND GEOLOGICAL MAPPING. (P. 141, 142, 143.)
Professors Clark and Gill.

DEPARTMENT OF MATHEMATICS

Professors.....N. B. MACLEAN, W. L. G. WILLIAMS

Assistant Professors.....GORDON PALL, W. B. ROSS, F. M. WOOD

Lecturer.....

FIRST YEAR.

191. SPHERICAL TRIGONOMETRY AND MENSURATION. Two lectures per week, second term.....Professors MacLean, Williams and Pall.

P—Prerequisite. C—Concurrent.

Text-books:—Hart and Hart, Solid Geometry and Spherical Trigonometry (Heath); Mathematical Tables (Chem. Rubber Pub. Co.).

192. ALGEBRA. Two lectures per week.
Professors Maclean, Williams and Pall.

Text-book:—Barnard and Child, A New Algebra, Vol. II. (Macmillan).

193. CALCULUS. Two lectures per week.
Professors MacLean, Williams and Ross.

Text-book:—Smith, Salkover and Justice, Calculus (Wiley).

195. ANALYTICAL GEOMETRY. (C. 192.) Two lectures per week, first term.....Professors MacLean, Williams and Pall.

Text-book:—Brown and Manson, Elements of Analytical Geometry (Macmillan).

SECOND YEAR.

198. CALCULUS. (P. 192, 193.) Two lectures per week.
Professors MacLean and Williams.

Text-book:—Smith, Salkover and Justice, Calculus (Wiley).

THIRD YEAR.

201. ALGEBRA AND DIFFERENTIAL EQUATIONS. (P. 192, 193, 198.) Two lectures per week.....Professor Pall.

Text-book:—I. S. and E. S. Sokolnikoff, Higher Mathematics for Engineers and Physicists (McGraw-Hill).

DEPARTMENT OF MECHANICAL ENGINEERING

Professor.....A. R. ROBERTS

Professor (Post-Retirement)....C. M. MCKERGOW

Assistant Professors.....J. A. COOTE, R. H. PATTEN, R. W. KLINCK

Sessional Lecturers.....H. F. ARMSTRONG, ...

Demonstrators.....J. H. BAUDOUIN, R. B. KILLAM

Shop Instructor.....G. ROBERTSON

P—Prerequisite. C—Concurrent.

SECOND YEAR.

218. MECHANICS OF MACHINES. (P. 194.) One lecture, and three hours laboratory per week, second term.....Professor Patten.

Text-book:—Guillet, Kinematics of Machines (Wiley).

224. MECHANICS OF MACHINES. (P. 83, 218.) Alternative with Accounting (238). Two lectures and one hour problems per week.
Professor Coote.

Text-book:—Ewing, Steam Engine (Longmans Green).

225. MACHINE DESIGN. (C. 87.) Two lectures per week.
Professor Klinck.

Text-books:—Berard and Waters, Machine Design (Van Nostrand); McKay, Principles of Machine Design (Arnold); Kimball and Barr, Elements of Machine Design (Wiley); Hyland and Kommers, Machine Design (McGraw-Hill).

226. MECHANICAL ENGINEERING. (C. 228.) Two lectures per week. First term only for students in Architecture.
Professor McKergow.

Text-book:—MacNaughton, Elementary Steam Power Engineering (Wiley).

227. MECHANICAL ENGINEERING. (C. 228.) Three lectures per week.....Professor McKergow.

Text-book:—As for 226.

228. MECHANICAL ENGINEERING LABORATORY. (C. 226, 227.) Three hours per week for all students. First term only for students in Architecture.....Professor Patten and Mr. Wheatley.

Text-book:—Diederichs and Andrae, Experimental Engineering (Wiley).

229. THERMODYNAMICS. Two hours per week....Professor Roberts.

Text-books:—Keenan and Keyes, Properties of Steam (Wiley); Moyer, Calderwood and Potter, Elements of Engineering Thermodynamics (Wiley); V. W. and G. A. Young, Elements of Engineering Thermodynamics (McGraw-Hill).

231. MECHANICAL DRAWING. (C. 225, P. 344, 233.) Three hours per week.....Professor Klinck.

Ref. books:—Berard and Waters, Machine Design (Van Nostrand); Haven and Swett, Design of Steam Boilers and Pressure Vessels (Wiley).

233. SUMMER SCHOOL. Prerequisite to courses 236 and 231. Four weeks in September, preceding the work of the Third Year.
Professor Klinck and Mr. Robertson.

P—Prerequisite. C—Concurrent.

236. MACHINE SHOP. (P. 233.) Three hours per week.
Mr. Robertson.

237. INDUSTRIAL ENGINEERING. Two lectures per week, first term.
Professor Coote.

Text-book:—Alford, Principles of Industrial Management (Ronald Press.)

238. ACCOUNTING. (Alternative with 224.) One lecture and two hours problems per week.....Professor Coote.

Text-book:—Specthrie, Industrial Accounting (Prentice-Hall).

FOURTH YEAR.

240. MECHANICS OF MACHINES. (P. 224.) (a) *Valve gears and governors*, (b) *Aerodynamics*. Two lectures and one hour problems per week.
Professor McKergow.

Text-book:—Jones, Elementary Practical Aerodynamics (Wiley).

241. DESIGNING. (C. 242.) Three hours per week.
Professor Roberts.

242. MACHINE DESIGN. (P. 225, C. 241.) Two lectures per week.
Professor Roberts.

Text-books:—Unwin, Machine Design, Parts I and II (Longmans Green); Kimball and Barr, Elements of Machine Design (Wiley); Faires, Machine Elements (Macmillan).

243. MACHINE DESIGN. (P. 225.) Optional for Electrical Engineering students. Two lectures per week, second term.....Professor Roberts.

244. POWER PLANT DESIGN. (P. 227.) One lecture and three hours draughting per week.....Professor McKergow.

Text-book:—Gebhardt, Steam Power Plant Engineering (Wiley).

247. HEATING AND VENTILLATION OF BUILDINGS. (P. 227.) One lecture per week.....Professor Patten.

Text-book: — Allen and Walker, Heating and Air Conditioning (McGraw-Hill).

249. MECHANICAL ENGINEERING LABORATORY. (P. 227, 228.) Nine hours per week.....Professors Roberts and Patten and demonstrators.

Text-books:—Diederichs and Andrae, Experimental Engineering (Wiley).

P—Prerequisite. C—Concurrent.

249A. MECHANICAL ENGINEERING LABORATORY. (P. 227, 228.) Required of students in Fourth Year Mechanical Engineering who take the Industrial Administration option. Six hours problems and drafting room per week..... Professors Roberts and Patten and demonstrators.

251. THERMODYNAMICS. Two lectures per week.
Professor Roberts.

Text-books: — Kiefer and Stuart, Engineering Thermodynamics (Wiley); Goudie, Steam Turbines (Wiley).

252. MACHINE SHOP. (P. 236.) Three hours per week.
Mr. Robertson.

253. INDUSTRIAL ENGINEERING. (P. 238.) Two lectures and three hours drafting room per week..... Professor Coote.

Text-book:—Lansburgh, Industrial Management (Wiley).

254. INDUSTRIAL ADMINISTRATION. (C. 252.) One lecture and three hours draughting per week, second term..... Professor Coote.

257. EXPERIMENTAL ENGINEERING. (C. 249, 249A.) One lecture per week..... Professor Roberts.

Text-book:—Diederichs and Andrae, Experimental Engineering (Wiley).

258. INDUSTRIAL RELATIONS. Two lectures per week, first term.
Professor Coote.

Text-books:—Watkins and Dodd, Management of Labor Relations; Scott, Clothier, Mathewson and Spiegel, Personnel Management (McGraw-Hill).

Summer Schools—see note (b), page 341.

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING OR MASTER OF SCIENCE

Graduate Courses are offered in Engineering Thermodynamics, Machine Design and Industrial Engineering. For particulars of these and qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

P—Prerequisite. C—Concurrent.

DEPARTMENT OF MINING AND METALLURGICAL ENGINEERING

Professors.....{Wilbert G. McBride
J. U. MacEwan

Associate Professors.....{Gordon St. G. Sproule
O. N. Brown

Sessional Lecturer and Demonstrator.....M. D. O'Shaughnessy

Douglas Fellow.....F. A. Cunnington

Dawson Fellow.....C. H. Perrault

Harrington Fellow.....J. P. Ogilvie

MINING ENGINEERING

Third Year.

291. Mining Engineering. Two lectures per week, first term.
Professor McBride.

292. Mineral-Dressing. Two lectures per week, second term. (See 300).....Mr. O'Shaughnessy.
Text-books:—Taggart, Handbook of Ore Dressing (Wiley); Peele, Mining Engineers' Handbook (Wiley); Lewis, Elements of Mining (Wiley).

Fourth Year.

293. Mine Mapping. (P. 353, 354.) Three hours per week, first half of first term.....Professor Brown.

297. Mining Engineering. Two lectures per week, first term, and three lectures per week, second.
Professors McBride and Brown.

298. Mining Design. (P. 111, 112, 226, C. 297, 300.) Six hours draughting per week, second term.
Professors McBride and Brown

300. Mineral-Dressing. Two lectures per week, first term, and one lecture per week, second term.
Professor Brown and Mr. O'Shaughnessy.

301. Mining Colloquium. (C. 297, 300.) One hour per week, second term, is given to discussion of subjects pertaining to mining or mineral dressing. One student presides while another opens the discussion.

P—Prerequisite. C—Concurrent.

305. Mineral-Dressing Laboratory. (P. 292, C. 300) (Metallurgical Engineering Students only). Three hours per week, first term. Professor Brown and Mr. O'Shaughnessy.

307. Mineral-Dressing Laboratory and Thesis Work. (P. 264.) Three hours per week, first term, and seven hours per week, second term.

Text-books:—Rabone, Flotation Plant Practice (Mining Publications); Young, Working of Unstratified Mineral Deposits (Benn); Young, Elements of Mining (McGraw-Hill); Chapman and Mott, The Cleaning of Coal (Chapman & Hall); Bullman, The Working of Coal and Other Stratified Minerals (Benn); Baxter and Parks, Mine Examination and Valuation (Finnish Lutheran Book Concern); Weeks, The Ventilation of Mines (McGraw-Hill); Gaudins, Flotation (McGraw-Hill); Dorr, Cyanidation and Concentration of Gold and Silver Ores (McGraw-Hill).

Research Fellowships and Graduate Courses

Courses are offered for graduate students in mining and ore-dressing. (See Announcement of the Faculty of Graduate Studies and Research.) There are three endowed Research Fellowships in the Department. These are awarded to graduates of the Department who show particular aptitude for advanced work.

Field School in Mining

294. All students in Mining Engineering are required to attend the field class at the end of the Third Year.

The work is confined to an intensive study of one or more districts with possible visits to nearby districts under the guidance of members of the staff. The student is required to work in a mine or mineral-dressing plant for at least two months. He is also required to submit his notes and an essay on some phase of the work at the beginning of the Fourth Year.

Courses for the Degree of Master of Engineering

Graduate Courses are offered in Mining Engineering, Mine Organization and Management, Settling of Finely Divided Minerals in Water, Filtration in Mineral-Dressing and Cyanidation, Cyanidation of Gold and Silver Ores, Theory and Practice of Flotation, Fine Grinding and Mine Ventilation.

For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

P—Prerequisite. C—Concurrent.

METALLURGICAL ENGINEERING

THIRD YEAR.

261. METALLURGY OF IRON AND STEEL. One lecture per week.
Professor Sproule.

Text-book:—Stoughton and Butts, Engineering Metallurgy (McGraw-Hill).

262. METALLURGICAL LABORATORY. (C. 261.) Three hours laboratory per week, one term.....Professor Sproule.

263. FIRE-ASSAYING. (C. 264.) One lecture per week ,first term.
Professor Sproule.

264. FIRE-ASSAYING LABORATORY. (C. 263.) Four hours laboratory per week, first term.....Professor Sproule.

Reference-books:—Smith, Sampling and Assay of the Precious Metals (Griffin); Bugbee, Fire-Assaying (Wiley); Fulton and Sharwood, Manual of Fire-Assaying (McGraw-Hill).

265. METALLURGICAL CALCULATIONS. (C. 261.) Four hours per week, second term..... Professor MacEwan.

266. PHYSICAL METALLURGY. One lecture and two hours laboratory per week, first term, for Mechanical Engineering students.
Professor Sproule.

273. METALLURGICAL LABORATORY. (C. 261.) Three hours laboratory per week, second term.....Professor Sproule.

268. METALLURGICAL FIELD SCHOOL. Held at the end of the Third Year; includes visits to metallurgical works in Montreal and vicinity, and to smelters, steel-works and metallurgical refineries within a reasonable distance of Montreal. Students are required to keep notes and to submit a written account of their observations at the conclusion of the Field School. The only expense is for board, lodging and railway fares; these are kept as low as possible.

FOURTH YEAR.

271. METALLURGY (General). (P. 261.) Two lectures per week, session.....Professors MacEwan and Sproule.
Reference-books are available in Departmental Library.

272. METALLURGY (Advanced). (P. 261, C. 275.) Two lectures per week, session.....Professor MacEwan.
Reference-books are available in Departmental Library.

274. METALLURGICAL THESIS. (P. 261, C. 271.) Three hours laboratory per week, first term; nine hours laboratory per week, second term.....Professors MacEwan and Sproule.

P—Prerequisite. C—Concurrent.

275. ELECTROMETALLURGY. (C. 70.) One lecture per week, session.....Professor MacEwan.

Text-book:—Glasstone, Electro Chemistry of Solutions (Methuen).

277. METALLURGICAL COLLOQUIUM. One hour per week, second term.....Professors MacEwan and Sproule.

278. METALLURGICAL PROBLEMS AND DESIGN. (P. 265, C. 272.) Three hours per week, draughting, first term; two lectures and three hours per week, library and draughting, second term.

Professor MacEwan.

279. METALLURGICAL ANALYSIS. (P. 53.) Three hours laboratory per week, first term.....Professors MacEwan and Brown.

280. METALLOGRAPHY. Two lectures per week, session.

Professor Sproule.

Text-books:—Sauveur, Metallography of Iron and Steel (University Press); Doan, Principles of Physical Metallurgy (McGraw-Hill); Van Wert, Introduction to Physical Metallurgy (McGraw-Hill); Jeffries and Archer, Science of Metals (McGraw-Hill).

281. METALLOGRAPHIC LABORATORY. Three hours per week, second term.....Professor Sproule.

283. METALLURGICAL CALCULATIONS. (P. 261, C. 271.) Two lectures per week, second term, for Mining Engineering Students.

Mr. O'Shaughnessy.

284. METALLURGICAL LABORATORY. (P. 261.) Three hours per week, second term, arranged to illustrate 261 and 271. For Mining Engineering Students.....Professor Sproule.

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING

Graduate Courses are offered in Advanced Metallurgy, Electrometallurgy, Metallurgical Problems and Metallography. For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

P—Prerequisite. C—Concurrent.

DEPARTMENT OF PHYSICS

Professors.....{A. N. Shaw, D. A. Keys, J. S. Foster}

Associate Professors.....{H. E. Reilley, W. H. Watson}

Assistant Professors.....{H. G. I. Watson, F. R. Terroux}

Lecturers.....

Instructor in Laboratory Technique.....H. T. Pye

Demonstrators (1942-43).....{A. I. McPherson, P. Lorrain, W. B. Ross, H. Kaufman, V. Harkness, D. Osborne, F. T. Webb, J. M. Honeyman, W. R. Christian, J. W. Dodds, R. H. Johnston, J. E. Lebel, J. H. Summerby}

First Year.

311. Heat, Sound and Light. (Arts and Science 2.) (C. 312.) Two lectures and one hour tutorial per week.....Professor Shaw.

Text-book:—Duncan and Starling, Heat, Light and Sound (Macmillan).

312. Laboratory Course. (Arts and Science 2.) (C. 311.) Two hours per week.....Dr. Terroux and demonstrators.

Text-book:—Heat, Sound and Light Laboratory Manual (Renouf Pub. Co.).

Second Year.

315. Electricity and Magnetism. (Arts and Science 3A.) (P. 311, C. 316.) Two lectures and one hour voluntary tutorial per week.

Professor Reilley and Dr. H. G. I. Watson.

Text-book:—Brown, Electricty and Magnetism (Holt & Co.).

Reference Book:—Starling, Electricity and Magnetism (Longmans).

316. Laboratory Course. (Arts and Science 3A.) (P. 311, C. 315.) Three hours per week.....Prof. G. G. I. Watson and demonstrators.

Text-book:—Electricity and Magnetism Laboratory Manual (mimeographed).

P—Prerequisite. C—Concurrent.

THIRD YEAR.

318. ELECTRICITY. (Arts and Science 6C.) (P. 315.) Two lectures per week, second term ..... Professor Keys.

Text-book:—Crowther, Ions, Electrons and Ionizing Radiations (Arnold).

FOURTH YEAR.

320. APPLIED GEOPHYSICS. (Arts and Science 12, Graduates W.) Two lectures per week, first term ..... Professor Keys.

Text-book:—Eve and Keys, Applied Geophysics, 2nd edition (Cambridge).

Reference Book:—Heiland, Geophysical Exploration (Prentice-Hall).

For Graduate Courses in Physics see the Announcement of the Faculty of Graduate Studies and Research.

COURSE IN ENGINEERING PHYSICS

This course is intended to train men for research or academic positions. Subject to the approval of the Chairmen of the Departments of Electrical Engineering and of Physics, it is available to

(1) students in the Faculty of Arts and Science entering their third year who have satisfactorily completed the second year Honours Course in Mathematics and Physics.

(2) students in Engineering who have completed the first and second years with first or second class standing in Mathematics and Physics.

The numbers of the courses below refer to the Physics syllabus given in the Announcement of the Faculty of Arts and Science.

THIRD YEAR.

Mathematics, 6 & 7.

Physics, 5B, 6B (or 8B), 6C.

Electrical Engineering, 113, 114.

FOURTH YEAR.

Mathematics, 10 or 11.

Physics. 5A, 6A, 7A, 7B, 8A, 8B (or 6B), 9.

*Summer Thesis or Shop Work.

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*This is required in the case of students proceeding later to the degree of B.Eng. P—Prequisite. C—Concurrent.

The student may now receive the B.Sc. degree with Honours in Mathematics and Physics. In his fifth year he may either proceed towards the M.Sc. degree taking some of the fourth-year Electircal Engineering courses as advised by the Chairmen of the Departments of Physics and of Electrical Engineering; or, if he has completed the first and second years in Engineering, he may proceed to the degree of Bachelor of Engineering in Electrical Engineering, taking such subjects of the third and fourth year courses in Engineering as are approved by the Faculty of Engineering.

DEPARTMENT OF SURVEYING AND GEODESY

Associate Professor.....A. J. KELLY*
Assistant Professor.....L. J. ARCAND
Sessional Lecturer.....C. C. LINDSAY
Demonstrator.....R. H. CLARK

FIRST YEAR.

341. DESCRIPTIVE GEOMETRY. (See page 446.)

345. SURVEYING. Two lectures per week, second term.
Mr. Lindsay.

Text-book:—W. H. Rayner, Elementary Surveying (Van Nostrand).

SECOND YEAR.

346. SURVEYING. (P. 191, 345.) Two lectures per week, first term (Engineering); one lecture per week, second term (Architecture).
Mr. Lindsay.

Text-book:—W. H. Rayner, Elementary Surveying (Van Nostrand).

347. FIELD WORK. (P. 191, 345.)

348, 349, MAPPING.....Professor Arcand.

THIRD YEAR.

350. MAPPING. Two hours draughting, second term.
Mr. O'Shaughnessy.

351. MAP PROJECTIONS. Three hours draughting, first term.

352. SURVEYING. (P. 191, 346, 347.) Two lectures per week, second term. Mr. O'Shaughnessy.

Text-book:—W. W. Staley, Introduction to Mine Surveying (Stanford University Press).

353. SURVEYING. (P. 191, 346, 347.) Two lectures per week.
Professor Arcand and Mr. Lindsay.

Text-books:—Davis and Foote, Surveying (McGraw-Hill); Hosmer Practical Astronomy (Wiley).

P—Prerequisite. C—Concurrent.
*On leave of absence.

354. Field Work. (P. 346, 347.)

Fourth Year.

359. Geodesy. (P. 191, 353.) Two lectures per week, first term. Professor Arcand.

Text-book:—Hosmer, Geodesy (Wiley).

360. Geodetic Laboratory. (P. 191, C. 359.) Three hours per week, first term.....Professor Arcand.

361. Field Work. (P. 353, 354.)

Field Work

Field work is required of all students entering the Second Year, except those taking Chemical Engineering, of students entering the Third Year in the courses in Civil and in Mining Engineering, and of students entering the Fourth Year course in Civil Engineering. The work will begin in 1944 on or about April 27th and will continue for four weeks.

Students entering Second and higher Years from other Universities or from other Faculties, who cannot attend the above courses in Field Work, must attend Special Summer Schools, details of which are given on page 431.

REGULATIONS CONCERNING PREREQUISITE SUBJECTS, STANDING AND PROMOTION

(1) Students proceeding to a degree are classed as Undergraduates or Conditioned Undergraduates. Undergraduates are those who, having passed all entrance requirements, have also at the close of any session passed the examinations in all the subjects of their courses or who, at the opening of the following session, have removed all conditions by passing supplemental examinations in the subjects in which they failed. Conditioned Undergraduates are those who have failed to remove all of their conditions as above.

(2) No student proceeding to a degree is allowed to take any subject unless he has previously passed, or secured exemption in all prerequisite subjects.

(3) No undergraduate conditioned in any entrance requirement is permitted to register for any Second Year course nor is any undergraduate conditioned in any First or Second Year subject permitted to register for any Third or Fourth Year courses.

P—Prerequisite. C—Concurrent.

(4) Conditioned Undergraduates proceeding to a degree must follow a course of study approved by the Faculty on the recommendation of the Committee on Registration, Standing and Promotion. They may be required to repeat subjects in which they have passed, but in which their standing has been low.

(5) Partial students are those who are not proceeding to a degree. Such students may be admitted to classes without regard to the prerequisite rule, provided that they have obtained the permission of the chairman of each department concerned, and that their courses are approved by the Committee on Registration, Standing and Promotion.

(6) If a partial student wishes to obtain undergraduate standing in order to proceed to a degree, he will not be given credit for subjects taken in contravention of the prerequisite rule, until he has also passed examinations or secured exemptions in such prerequisites as may be demanded by the Committee on Registration, Standing and Promotion, and, on the recommendation of this Committee, has had his case approved by a unanimous vote of the Faculty.

(7) Partial students are not eligible to take supplemental examinations.

(8) No Fourth Year student is allowed a supplemental or special supplemental examination in any subject in the period between the opening of the second term and the date of Convocation.

McGILL UNIVERSITY

FACULTY OF MEDICINE

SCHOOL OF PHYSIOTHERAPY

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.

Dean.....John Fraser, M.D., C.M., F.R.C.S. (C), F.A.C.S., F.R.C.O.G.

Medical Director.....Guy H. Fisk, B.A., M.D., C.M., D.T.M. & H.

Chief Instructress.....Miss M. Finley, T.M.N.G. (Eng.), C.P.A.

Bursar.....William Bentley, C.G.A., A.C.I.S.

Registrar.....T. H. Matthews, M.A.

GENERAL INFORMATION

The aim of the course in Physiotherapy is to provide a supply of adequately trained graduates who will be qualified to work as Physiotherapy aides in hospitals, institutions, and private homes.

Physiotherapy is the use of heat, light, water, electricity, and mechanical agents, including massage and remedial gymnastics, in the treatment of injury and disease. Physiotherapy aides are trained in the use of these healing agents under the direction of a physician, such treatments being prescribed by the physician and carried out according to prescription.

There is a steadily growing demand for qualified Physiotherapy aides in both civilian life and the armed services. In the armed forces Physiotherapy sisters are given the same rank and commission as a nurse. In civilian life they work in hospitals, industries, clinics, and in private homes under the direction of doctors. It is a profession for women.

The curriculum consists of two academic years with two months hospital interneship at the end of the first year and six months hospital interneship at the end of the second year. Throughout the course ample provision has been made for practical hospital instruction in addition to

the University training. This hospital training will be carried out at the Children's Memorial, Montreal General, Royal Victoria, and Verdun Protestant Hospitals in the Physiotherapy Departments.

Upon completion of the entire course satisfactorily, a diploma of Technician in Physiotherapy is granted by the University.

REQUIREMENTS FOR ADMISSION

Senior matriculation or one year of college work meets the requirements of the Canadian Physiotherapy Association. Candidates for admission must submit certificates to show that they have junior and senior matriculation standing in the University's School Certificate Examination or some other examination recognized by the University as equivalent. The subjects studied should include senior matriculation Physics. Biology and Chemistry are also recommended.

A list of examinations recognized for junior and senior matriculation standing is given in the School Certificate Announcement. In Ontario, for example, the equivalents are complete Middle and five subjects of the Upper School examinations.

Candidates who wish to know whether they have the academic qualifications for admission to the course should send complete details of their school and college work to:

Dr. Guy H. Fisk, Medical Director,
School of Physiotherapy,
Medical Building, McGill University.

PHYSICAL REQUIREMENTS

Candidates, in order to qualify for admission, must satisfactorily pass a complete physical examination.

FEES

Fees are due and payable at the Bursar's Office during the hours of 9 a.m. to 1 p.m. or 2.30 to 4.00 p.m. on Registration Day. If desired fees may be remitted by mail on or before the due dates. They may be paid in two instalments, in which case there is a charge of $5.00. The second instalment is due on or before February 1st.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the following paragraph:

Immediately after the prescribed dates for the payment of fees the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them

from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

FIRST YEAR

ANATOMY.

General Anatomy and Physiology. 90 hrs.

The emphasis in this course is upon the body as a living mechanism in which the function and structure are inseparably related and in which the activities of all parts are intimately co-ordinated.

Texts: Anatomy and Physiology, Williams (Saunders Co.).

Laboratory period by arrangement. Dr. Lamb.

Special Anatomy. 60 hrs.

A course designed to provide the student with a practical knowledge of the important structures of the human body both gross and microscopical.

Department of Anatomy. Lectures 90 hrs., Labs. 60 hrs

PHYSICS.

A general course covering mechanics, heat, magnetism, electricity and sound.

3 hours—2 hours lab.

PRINCIPLES AND METHODS OF PHYSICAL EDUCATION. 90 hrs.

An analysis of the aims of physical education and their relationship to those of general education. A study of age characteristics (physical, mental and social) of elementary school children. This is designed to help one gain an understanding of the interests, capabilities and desires of children and so lead to the proper choice of material for different age levels.

A study of terminology, of various types of gymnastics with and without music, of exercises suitable for various ages and types of classes, organization of lessons and courses, practice in presenting exercises and typing lessons.

A large repertoire of appropriate games and rhythmical activities is presented.

3 hours. Miss Munro, Miss Wagner.

PSYCHOLOGY. Lectures 60 hrs.

An introduction to general psychology, together with some specific instructions in practical psychology where it applies to the related fields of health, physical education and recreation. Particular attention will be

paid to the professional relationships between teacher and pupil, including such things as establishing rapport, gaining confidence and goodwill and eliciting whole-hearted support on the part of the pupil or patient.

2 hours. Mr. Orlick.

MEDICAL GYMNASTICS—theory and practice of exercises as utilized in the treatment of disease. 120 hrs.

An elementary course on the theory and practice of medical gymnastics as used in the treatment of various diseases and injuries. Stress will be laid on the differentiation of exercises suitable to various types of illness.

CLINICAL THERAPEUTICS. 60 hrs.

A brief consideration of the diseases affecting the cardiovascular, respiratory, gastro-intestinal, genito-urinary and locomotor systems that have symptoms which will respond to treatment by physical therapy agents. The application of such treatment to specific symptoms will be dealt with in detail. Dr. Fisk.

ELECTROTHERAPY. 30 hrs.

A discussion of the currents used in medical diagnosis and treatment. Dr. Fisk.

MASSAGE—theory and practice.

The physiological effects of massage on the various systems of the body and its technique of administration with suitable practice on the human body. Miss Finley.

Three afternoons per week.

HOSPITAL PRACTICE.

See note on p. 6.

INTERNESHIP.

2 months interneship at a suitable hospital will be required after completion of the first year.

SECOND YEAR

PHYSIOLOGY. Lectures 60 hrs., Labs. 90 hrs.

The special physiology of posture and muscular motion and exercises, the nervous and circulatory systems—a consideration of the physiological bases for procedures in Physiotherapy. Professor Hoff.

ANATOMY—Special Anatomy. 60 hrs.

Lectures and demonstrations designed to provide a more intimate knowledge of the anatomical structure and functions of the bones and joints, the muscular, cardiovascular, nervous and respiratory systems.

Professor Martin.

PERSONAL AND COMMUNITY HYGIENE. 30 hrs.

An elementary study of the more common pathogenic organisms and communicable diseases; their relation to health; precautions against and means of combating pathogenic organisms.

Health organizations and the means of maintenance of health; the laws of healthful living and the responsibility of the individual.

2 hours first term.

Professor of Public Health and Preventive Medicine, Miss Munro.

FIRST AID AND HOME NURSING. 15 hrs.

A course designed to provide a practical insight into the general principles governing the management of common injuries, the most effective first aid procedures and nursing technique adapted particularly for use in the home. The methods now in use for the prevention of shock and control of haemorrhage. Dr. Fisk.

CLINICAL THERAPEUTICS. 75 hrs.

A discussion of the application of physical treatment to the patient as a whole with special reference to contra-indications and the patient's general mental outlook on his disease. Detailed discussions of fractures, joint disease, joint injuries and diseases of the nervous system in relation to physical treatment. Dr. Fisk.

MEDICAL GYMNASTICS. 180 hrs.

An advanced course on the theory and practice of medical gymnastics in the treatment of the diseased and injured individual. Miss Finley.

FUNDAMENTAL AND RHYTHMICAL GYMNASTICS. 60 hrs.

Fundamental Gymnastics. Stressing basic body conditioning; developing strength; flexibility and co-ordination. Done without music for training ability in setting and maintaining rhythm without outside help and because of uneven rhythm and sudden changes of tempo.

Rhythmical Gymnastics. Also a development of general bodily skill as in fundamental gymnastics, but stressing more the response to music and exercise on the move.

2 hours. Miss Wagner.

MASSAGE—theory and practice. 135 hrs.

An advanced course dealing with the effects of massage on diseased tissue, its psychological effects and its general application to the sick person.

ELECTROTHERAPY. 75 hrs.

A course on the physiological effect of the various electrical currents used in the treatment of sick people with the technique of their application and a consideration of the dangers and contra-indications. Dr. Fisk.

PHYSICS. 30 hrs.

A short course dealing particularly with the principles underlying the use of physiotherapeutic apparatus. Professor Keys.

HYDROTHERAPY. 15 hrs.

The psychological effects of hydrotherapy on the human body and the general technique of administration including therapeutic baths, underwater exercises, sprays, therapeutic packs and contrast baths.

Dr. Fisk, Miss Finley.

ETHICS.

The relationship of the physical therapy technician to the medical profession, to the hospital, to the patient and to the nurses. An outline of a professional code for conduct, together with a resume of the records that should be kept will be presented. Dr. Fisk.

HOSPITAL PRACTICE. 2 mornings in first term, 4 in second.

This will consist of actual practice on patients in the clinics and wards under direct supervision. The work will be carried out in the Children's Memorial, Montreal General, Royal Victoria and Verdun Protestant Hospitals. These hospitals provide a wide variety of cases, embracing every type that the practising physiotherapist will be likely to encounter. As Montreal is a centre drawing patients from many outlying districts there will also be opportunities of seeing many rare conditions during the hospital practice.

Besides learning the practical side of the work at the hospital the student will be instructed in hospital routine and the correct approach

to the patient. At the end of her hospital experience the student will be sufficiently experienced to deal with any situation she may be called upon to face in her practical work.

INTERNESHIP.

A period of interneship at a suitable hospital for six months will be necessary on completion of the second year.

McGILL UNIVERSITY

MONTREAL

FACULTY OF MEDICINE

1943 - 1944

TABLE OF CONTENTS

	Page
Administrative Officers	485
Admission to Medicine	487
Alpha Omega Alpha Honorary Medical Society	532
Anatomy	497
Anæsthesia	517
Bacteriology	502
Biochemistry	500
Board and Lodging	490
Buildings	529
Bursaries	495
Clinical Therapeutics	509
Course for the Degree of M.D., C.M.	491
Courses of Instruction	497
Dermatology	509
Diploma of Public Health	524
Dominion Registration	496
Embryology	498
Endocrinology	527
Entrance Requirements	487
Equivalent Standing in Medicine	487
Examinations	492
Fees	489
Fellowships	495
General Council of Medical Education	496
Grading	494
Graduate and Advanced Courses	528
Gynæcology	521, 523
Health	490
Histology	498
Hospitals	531
Immunity	502
Institute of Endocrinology	525
Library	533
Loan Fund	495

	Page
Medals	495
Medical Jurisprudence	511
Medical Societies	534
Medicine	507
Microscopes	490
Microscopic Anatomy	498
Neurology and Neurosurgery	515
New Regulations for the degree of M.D., C.M.	490
Obstetrics	521, 522
Ophthalmology	524
Orthopædic Surgery	517
Osler Library	531
Osler Society	532
Oto-Laryngology	525
Parisitology	503
Pathological Chemistry	500
Pathology	501
Pædiatrics	514
Pharmacology	506
Physiology	499
Prizes	495
Promotion	494
Psychiatry	508, 527
Public Health and Preventive Medicine	504
Radiology	526
Reciprocity with Great Britain	496
Registration	488
Requirements for Degree of M.D., C.M.	495
Requirements for Licence	495
Research Institute of Endocrinology	525
Scholarships	495
Surgery	517
Therapeutics	506
Undergraduate Medical Society	531
Urology	520
Veterinary Public Health	526

McGILL UNIVERSITY

FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L.

Dean of the Faculty.....J. R. Fraser, M.D., C.M., F.R.C.S. (C), F.A.C.S., F.R.C.O.G.

Secretary of the Faculty.....J. F. McIntosh, B.A., M.D., C.M.

Bursar.....W. Bentley, C.G.A., A.C.I.S.

Registrar.....T. H. Matthews, M.A.

University Librarian.....Gerhard R. Lomer, M.A., Ph.D., F.L.A.

Honorary Medical Librarian.....R. L. Stehle, M.A., Ph.D.

Osler Librarian and Director of the Museum of the History of Medicine.W. W. Francis, A.B., M.D.

Assistant Secretary of the Faculty.....Miss G. D. Mudge.

A complete list of the teaching staff of the University, including the Faculty of Medicine, is printed as a separate announcement, which may be obtained from the Registrar's Office. The announcement also contains the names of members of the staff on active service.

FACULTY OF MEDICINE

The one hundredth and eleventh session of the Faculty will open on September 8th, 1943, for students of the 1st year.

REQUIREMENTS FOR ENTRANCE

The minimum requirement for admission to the medical course is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science (or the equivalent thereof), including courses in the following subjects: Physics, one year with laboratory work; Biology, one year of General Biology or Zoology with laboratory work; half year of Botany and half year of Zoology will be accepted, but not one year of Botany alone; Chemistry, two full courses, including one full course of Organic Chemistry with laboratory work. Candidates for admission shall furnish evidence that they have satisfied the matriculation requirements of the Licensing Body where they wish to practise.

EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a Calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools accepted by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the accepted school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Secretary of the Faculty.

As the number of students in each class is limited, application should be made early and in any case not later than March 1st.

A fee of $25.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Dean or Secretary of the Faculty, when possible, is advisable.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office on Tuesday, September 7th, 1943. Those who register after this date will be required to pay a late registration fee of $5.00 if they register during the first week of the session and $10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

UNIVERSITY FEES

1. Regular Students.

Annual fee for British students	$375.00
By instalments: each of two instalments	190.00
Annual fee for Non-British students	475.00
By instalments: each of two instalments	240.00

2. Repeating a Year.

British students repeating a year pay	200.00
Non-British students repeating a year pay	250.00

3. Partial Students.

Qualified students may be admitted as partials to one or more courses on payment of special fees.

4. Ad Eundem Fee.

Students entering any year above the first pay a special *ad eundem* fee of $10.00

5. Diploma in Public Health Fees.

The fee for the graduate course in Public Health, including laboratory and outdoor work, is $150.00 for British and $200.00 for Non-British students. Students in this course are eligible for Health Service on payment of $5.00.

6. Caution Money.

Payable by every student, and returned, less deductions for damage, loss, etc., at the end of the session $10.00

STUDENT FEES

Fees for the Support of Student Organizations.

Regular students (men)	$11.00
Regular students (women)	9.00
Partial students	5.00

DATES OF PAYMENT

Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 4 p.m. on the following dates:—

Tuesday, September 7th, to Thursday, September 9th, inclusive,

or, if desired, fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

All fees of Canadian and British Empire students are payable in Canadian currency. Fees of students from the United States are payable in U.S. dollars, upon which the current premium of 10% will be allowable.

Domicile will in general determine whether a student pays the British or Non-British fees. A student who is uncertain which rate he will be required to pay should consult the Registrar.

For further information and for a list of special fees see the General Information Pamphlet included in this Accouncement.

During war-time acceleration of the course, four annual fees will continue to be paid. The dates when fees are due and payable will remain unchanged.

Microscopes

Each student, on beginning his studies, is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories:—2/3, 1/6, and 1/12 oil immersion objective, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine. Every effort is made by the University to obtain satisfactory microscopes for the students at a preferred cost, but this cannot be guaranteed.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Information Pamphlet included in this Announcement (pages 94 to 99).

HEALTH SERVICE

For details of the Health Service and Medical Examination see the General Information Pamphlet included in this Announcement (page 92).

COURSES FOR THE DEGREE OF M.D., C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

a. four years of medical study in the University leading to the degree of M.D., C.M.; and

b. one year of internship in an approved hospital.

OR

one year of further medical study in the Faculty of Medicine of McGill University or at another medical school approved by it.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

There are three sessions of thirty-six weeks each and one session (final session) of thirty-two weeks, all exclusive of examination periods. The sessions usually begin the first Tuesday after the first Monday in September (Labour Day) and continue until the first week of June in the first three years and to the first week in May in the final year.

The academic session is divided into two terms (of eighteen weeks) in the first session and into three terms in the following three sessions. The minimal period of study for the degree of M.D., C.M., is, therefore, four sessions of study comprising one hundred and forty weeks exclusive of examination periods.

ACCELERATION OF COURSE AS A WAR-TIME MEASURE:

At the request of the Federal Government of Canada the medical course has been accelerated as a "war measure", as long as this appears to be necessary, in order that medical students may graduate at an earlier date. This is accomplished by the introduction of summer terms, reducing the normal summer vacation periods to a minimum. Each summer session will accelerate the graduation of the class which takes it by approximately three months. According to this plan a class will be admitted in September of each year. A student entering at this time will complete his lectures and examinations in July three years later and at the end of the fourth year will have completed his interneship and will be eligible for his license examinations. This plan is being carried out for classes admitted previous to September 1943. The Department of National Defense has made arrangements to enlist senior Canadian students in Medicine into the Canadian Army (Active) in conjunction with this scheme for acceleration of the course. Details of this scheme may be obtained on application to the office of the Dean.

The arrangement of the principal subjects of instruction is usually as follows:

First Session:

Anatomy (Embryology), Biochemistry, Histology, Physiology.

Second Session:

Physiology, Pharmacology, General Pathology, Bacteriology, Immunology, Parasitology, Laboratory, Diagnosis, Medicine, Surgery, Obstetrics.

Third Session:

Special Pathology, Public Health, Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics, Mental Hygiene, Psychiatry, Therapeutics, Ophthalmology, Otolaryngology, Medical Jurisprudence, Radiology.

Fourth Session:

Medicine,* Surgery,* Obstetrics and Gynaecology, Paediatrics, Ophthalmology, Otolaryngology.

*In these subjects are included the following—

Medicine—Dermatology, Psychiatry, Neurology, Clinical Therapeutics, Medical Radiology.

Surgery—Orthopaedics, Urological Surgery, Neurosurgery, Anaesthesia, and Surgical and Therapeutic Radiology.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely, major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Bacteriology, Pathology, Public Health, Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology.

Minor examinations include the final examinations in Parasitology, Laboratory Diagnosis, Endocrinology, Immunology, Medical Jurisprudence, Ophthalmology, Otolaryngology, and examinations preliminary to the final examinations in Anatomy, Physiology, Public Health, Pathology, Medicine (including Therapeutics and Psychiatry), Surgery, Obstetrics and Gynaecology and Paediatrics.

A student who fails in any major examination will be required before he sits a supplemental examination to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major

examination, there are definite restrictions as hereinafter set forth, while failure in the supplemental of a minor examination permits the student to carry conditions as are hereinafter laid down.

A student who fails in the supplemental of one (or two) minor examination may proceed with other subjects in the following year, carrying such a subject as a condition, but may not sit any subsequent major examinations until such conditions have been removed, nor may more than two conditions be carried at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to the previous year and to repeat the courses of the Winter and Spring terms.

A student who fails in the supplementals of three or more minor examinations in any one session must repeat this session or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A failure in the supplemental of a major examination will require the student to repeat the course (repeat the year), and no student may repeat such a course more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A student in the final year may take a supplemental examination in one subject only at the end of the following September, but must present a certificate from the senior professor of the Department concerned that he has taken at least three months' extra tuition in this subject in one of the teaching hospitals of McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in the final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in

examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the department concerned.

A student who has been permitted to repeat his year shall be required to make a C+ grade, which for this purpose is considered to be 65%, or he will not be permitted to continue his course.

A schedule of the times of major and minor examinations shall be published as a supplement to these ordinances at the beginning of each academic session.

Examinations, tests, reviews, etc., may be held during the session by any department in its time of instruction, provided that not more than twenty-four (24) hours' notice is given. It is understood that such examinations, tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know how he is progressing in his studies.

There shall be two Promotion Committees. The first Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Bacteriology, Parasitology, Pathology, and Endocrinology, appointed by the Dean, and the Dean and Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the first and second years. The second Committee shall consist of representatives of the Departments of Pathology, Bacteriology, Public Health, Medicine, Surgery, Obstetrics and Gynaecology and Paediatrics, appointed by the Dean, and the Dean and Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the third and fourth years.

All results of examinations will be given out by the Dean's office, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time, if in the opinion of his instructors he is incompetent.

C. GRADING

At the conclusion of each course, students are graded in five groups, as follows:—

A = Excellent
B = Good
C = Fair
D = Doubtful
E = Failure

In reporting the grading, the names of those students who attain "A" standing are arranged in order of merit; in all other grades the arrangement is alphabetical.

The grade assigned to a student is based upon the result of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

The quality of the English used by a candidate is taken into account in determining his standing in all examinations.

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, MEDALS, PRIZES, AND LOAN FUNDS

Details of fellowships, scholarships, bursaries, medals, and prizes open to undergraduate and graduate students in Medicine, and of the University Loan Fund may be found in the Scholarships Announcement.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.

2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than eight months each in this University or in some other university, college or school of Medicine, approved by this University. (See page 491.)

3. No one is permitted to become a candidate for the degree who has not attended at least one full session at this University.

4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the Medical course.

5. He must have attended during at least three sessions of nine terms the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University; and must have acted as clinical clerk for six months in Medicine and six months in Surgery and have fully reported upon at least ten medical and ten surgical cases.

6. He must also have attended during two terms the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.

7. Every candidate must also have administered anæsthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE TO PRACTISE

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right

of licensing is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before *beginning* the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a license to practise can be obtained. This has been changed to four years as a war-time measure.

N.B.—In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:—

QUEBEC—Dr. J. Paquin, 1896 Dorchester St. West, Montreal.

ONTARIO—Dr. Robert T. Noble, 566 University Avenue, Toronto, Ont.

NEW BRUNSWICK—Dr. J. M. Barry, 182 Princess St., Saint John, N.B.

NOVA SCOTIA—Dr. H. L. Scammell, 196 Atlantic St., Halifax, N.S.

PRINCE EDWARD ISLAND—Dr. H. D. Johnson, 275 Richmond St., Charlottetown, P.E.I.

MANITOBA—Dr. W. G. Campbell, 605 Medical Arts Building, Winnipeg, Man.

ALBERTA—Dr. George R. Johnson, 336 8th Ave. W., Calgary, Alta.

SASKATCHEWAN—Dr. A. W. Argue, 307 Birks Bldg., Saskatoon, Sask.

BRITISH COLUMBIA—Dr. A. J. MacLachlan, 203 Medical-Dental Building, Vancouver, B.C.

The Registrar for Newfoundland is Dr. C. Macpherson, P.O. Box 5121, St. John's, Nfld.

DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, Dr. J. Fenton Argue, 180 Metcalfe Street, Ottawa, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION AND REGISTRATION OF GREAT BRITAIN

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this

University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

COURSES OF INSTRUCTION

ANATOMY

Robert Reford Professor and Chairman of the Department... C. P. MARTIN
Associate Professor of Histology... H. SELYE
Assistant Professor of Anatomy... D. S. FORSTER
Assistant Professor of Histology... C. P. LEBLOND
Demonstrators in Anatomy..... E. W. WORKMAN, G. PERRIGARD
Demonstrators in Histology..... E. W. WORKMAN, S. H. LANE, Mrs. S. FRIEDMAN

REQUIRED COURSES

1. GROSS ANATOMY.

Five hours lectures and fifteen hours laboratory work per week during the Autumn, Winter and Spring terms of the First Medical Year.

2. APPLIED ANATOMY.

One hour per week lecture and demonstration during the Winter and Spring terms of the Third Medical Year. This course is conducted mainly by clinicians from the Royal Victoria and Montreal General Hospitals.

(Suspended for duration of the war.)

Text-books:—Gray's "Anatomy" (English Edition) or Cunningham's "Text-Book of Anatomy".

Practical Manuals:—Cunningham's "Manual of Practical Anatomy"; Johnston's "Synopsis of Regional Anatomy".

Optional Texts:—Quain, Piersal, Spalteholz Atlas, Fraser's "Anatomy of the Human Skeleton", Buchanan, Fraser and Robbins, Larsell, Ramson.

Elective Courses

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

3. Advanced Neuro-Anatomy.

Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton, assisted by Drs. Petersen and Kershman. The class is limited to twelve. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

4. Physical Anthropology.

Lectures and practical courses will be arranged for students when required.

MICROSCOPIC ANATOMY

Required Course

5. Histology.

The study of the histological structure of the body. Two hours lectures and nine hours laboratory work per week during the first half of the First Medical Year.

Text-book:—Bailey, "Text-Book of Histology".

Optional Texts:—Cowdry, Lewis, and Bremer, Jordan, Maximow and Bloom (Schafer).

Elective Course

6. Experimental Morphology.

Bi-weekly seminar. In this course current problems and discoveries in Experimental Morphology are discussed by members of the staff and graduate students.

EMBRYOLOGY

Required Course

7. The Study of Human Developmental Anatomy.

One hour per week lecture and three hours per week laboratory work during second half of the First Medical Year.

Text-book:—Arey, "Developmental Anatomy".

Optional Texts:—Jordan, Simkins, Bailey and Millar, Keith, Fraser.

PHYSIOLOGY

Joseph Morley Drake Professor and Chairman of the Department.....H. E. Hoff

Research Professor.....B. P. Babkin

Associate Professor.....N. Giblin

Lecturers.....S. Dworkin, Ronald Grant

Demonstrator.....Rhoda Grant

Required Courses

1. First Year Lectures.

Tuesday, Thursday, Saturday, at 9 a.m. (beginning in January).

1P. First Year Laboratory.

Nine hours a week, Spring Term.

2. Second Year Lectures.

Monday, Wednesday, Friday, at 9 a.m., Autumn and Winter Terms.

2P. Second Year Laboratory.

Six hours a week. Autumn Term.

Text-books:—

Systematic Physiology—Human.

Howell, Textbook of Physiology; Starling (and Evans), Human Physiology; MacLeod (and Bard), Physiology in Modern Medicine.

Clinical Physiology.

Samson Wright, Applied Physiology; Wiggers, Physiology in Health and Disease; Best and Taylor, Physiological Basis of Medical Practice.

Other Courses

(Available only for students who have obtained Honours in the Required Courses, and by application to the Chairman of the Department.)

3. Advanced Lectures.

3P. Advanced Laboratory.

BIOCHEMISTRY

Professor and Chairman of the Department.....D. L. Thomson

Assistant Professors.....O. F. Denstedt, R. D. H. Heard

Sessional Lecturer.....H. Sobel

Courses Offered in Biochemistry

First Year.

General Physiological Chemistry. 50 lectures and 100 hours laboratory work, in the second and third quarters of the first year.

Dr. Thomson.

Text-books:—Bodansky, "Introduction to Physiological Chemistry" (Wiley); Cameron, "Text-book of Biochemistry" (Macmillan); Williams, "Text-book of Biochemistry" (van Nostrand); Schmidt and Allen, "Fundamentals of Biochemistry" (McGraw-Hill).

Second Year.

Nutrition, 10 lectures, in the first term of the second year.

Dr. Thomson.

Endocrinology. 25 lectures, from October to April in the second year.

Dr. Heard.

Other courses offered by the Department are listed in the Announcements of the Faculties of Arts and Science, and of Graduate Studies and Research.

PATHOLOGY

Strathcona Professor and Chairman of the Department.....G. Lyman Duff

Professor.....L. J. Rhea

Associate Professor.....Theo. R. Waugh

Assistant Professor of Pathology..C. Y. Yuile

Lecturers.....J. E. Pritchard, F. W. Wiglesworth*

Lecturer in Neuropathology.....Karl Stern

Demonstrators.....H. L. Foster, M. B. Mackenzie

Sessional Demonstrators.....M. A. Simon, B. L. Newton

Fellows.....E. G. Hinds, Harry Starr

Required Courses

1. Course in General Pathology (Second Year).

   A. Two lectures per week (with epidiascopic and microscopic demonstrations) during the Winter and Spring terms (52 lectures). Professor Duff.

   B. Two practical laboratory classes per week during the Spring Term (80 hours practical work). Professor Duff, Dr. Yuile and Demonstrators.

2. Course in Special Pathology (Third Year).

   A. Two lectures per week during the Autumn, Winter and Spring Terms (72 lectures). Professor Duff, Professor Waugh and Lecturers.

   B. Two practical laboratory classes per week during the Winter and Spring Terms (96 hours practical work). Professor Duff, Professor Waugh and Staff.

   C. One demonstration of gross pathological material per week to students in small groups of 15 each, during Autumn, Winter and Spring Terms (36 hours.) Dr. Yuile, Dr. Foster and Dr. Simon.

3. Course in Applied Pathology (Third and Fourth Years).

   A. Pathological Conferences with demonstrations of current autopsy material. Once a week during the Autumn, Winter and Spring Terms.....Professor Duff.

*On military service

B. Group instruction in performance of autopsies with demonstrations of autopsy findings, during Autumn, Winter and Spring Terms. Time according to material.

Pathological Institute.....Professor Duff and Dr. Foster.
Montreal General Hospital..Professor Rhea and Dr. Pritchard.
Children's Memorial Hospital.....

Text Books:—MacCallum, A Text-Book of Pathology (Saunders); Karsner, Human Pathology (Lippincott); Boyd, Text Book of Pathology (Lea & Febiger); Muir, Text-Book of Pathology (Arnold).

REFERENCE BOOKS.

General:—Aschoff, Pathologische Anatomie (Gustav Fischer); Bell, Text Book of Pathology (MacMillan); Boyd, Surgical Pathology (Saunders); Boyd, Pathology of Internal Diseases (Lea & Febiger); Oertel, Outlines of Pathology (Renouf); Reimann, Kaufmann's Pathology (Blakiston); Smith & Gault, Essentials of Pathology (Appleton Century); Wood, Delafield & Prudden's Text-Book of Pathology (Wm. Wood & Co.); Wells, Chemical Pathology (Saunders).

Tumours:—Ewing, Neoplastic Diseases (Saunders); Geschickter & Copeland, Tumors of Bone (American Journal of Cancer); Willis, The Spread of Tumours in the Human Body (Churchill).

Haematopathology:—Naegeli, Blutkrankheiten und Blutdiagnostik (Julius Springer); Whitby & Britton, Disorders of the Blood (Churchill).

Neuropathology:—Biggart, Pathology of the Nervous System (Livingstone); Buzzard and Greenfield, Pathology of the Nervous System (Churchill); Freeman, Neuropathology (Saunders).

Technique:—Farber, The Post Mortem Examination (Charles Thomas); Mallory, Pathological Technique (Saunders); Saphir, Autopsy Diagnosis and Technique (Hoeber).

BACTERIOLOGY AND IMMUNITY

Professor and Chairman.....E. G. D. MURRAY
Associate Professor.....FREDERICK SMITH
Assistant Professors.....T. E. ROY*, C. D. KELLY, D. S. FLEMING
Lecturer.....W. H. MATHEWS*
Demonstrators.....D. H. STARKEY*, N. W. MCLELLAN*, G. G. KALZ

REQUIRED COURSES

All lectures and laboratory courses are given in the Department of Bacteriology (Pathological Institute).

*On military service.

COURSE 1. ELEMENTARY MEDICAL BACTERIOLOGY AND IMMUNITY.
Three lectures and 6 hours laboratory work a week. First term.

COURSE 1. S. ELEMENTARY GENERAL BACTERIOLOGY FOR ARTS AND SCIENCE STUDENTS.

COURSE 2. APPLIED MEDICAL BACTERIOLOGY AND IMMUNITY AND THE PROCESSES OF INFECTIOUS DISEASES.

Two lectures and demonstrations a week. Second term.

COURSE 3. BACTERIOLOGY AND IMMUNITY FOR HONOURS B.Sc.

Six lectures and 12 hours laboratory work a week throughout the year.

(Full details of the courses can be obtained by application to the Registrar).

Text-books:—Hans Zinsser and G. Bayne-Jones, Textbook of Bacteriology (Appleton); R. Muir and J. Ritchie, Manual of Bacteriology (Oxford University Press); R. T. Hewlett and James McIntosh, Manual of Bacteriology (Churchill); T. J. Mackie and J. E. McCartney, Practical Bacteriology (Livingstone); J. W. Bigger, Handbook of Bacteriology (Bailliere Tindall & Cox); Hans Zinsser, Resistance to Infectious Diseases (Macmillan); W. W. C. Topley and G. S. Wilson, The Principles of Bacteriology and Immunity (Edward Arnold & Co.); W. W. C. Topley, An Outline of Immunity (Arnold); M. Langeron, Precis de Microscopie (Masson & Cie); D. H. Bergey, Manual of Determinative Bacteriology (Williams & Wilkins); E. O. Jordan and W. Burrows, Text-Book of Bacteriology (Saunders); Frederick P. Gay, Agents of Disease and Host Resistance (C. C. Thomas); N. P. Sherwood, "Immunology" (Mosby Co.); H. Zinsser, J. F. Enders, L. D. Fothergill, "Immunity Principles and Application in Medicine and Public Health" (Macmillan Co.); R. W. Fairbrother, A Text-book of Medical Bacteriology (W. Heinemam, Ltd.).

PARASITOLOGY

Professor and Chairman of the Department.....T. W. M. CAMERON
Lecturer.....IVAN W. PARNELL*

REQUIRED COURSE

SECOND YEAR.

2A. HUMAN PARASITOLOGY.—This course on the animal parasites of man (protozoa, helminths and arthropods) comprises about 45 hours of instruction. Special attention is given to parasites found in North America, their diagnosis, bionomics and pathogenesis. In the practical class, each student examines all the important species as well as the lesions caused by them.

*On Military Service.

First term—Two lectures and one laboratory period per week.

ELECTIVE COURSES.—The Department not only provides facilities for advanced research work at the Institute of Parasitology, but offers didactic courses in general and comparative parasitology and courses leading to the degrees of M.Sc., and Ph.D. (See Announcement of the Faculty of Graduate Studies and Research).

Text-book:—Cameron, T. W. M., "The Parasites of Man in Temperate Climates."

PUBLIC HEALTH AND PREVENTIVE MEDICINE

Strathcona Professor and Chairman of the Department.....

Associate Professor and Acting Chairman.....R. ST. J. MACDONALD

Assistant Professor.....FRANK G. PEDLEY

Lecturer (Mental Hygiene).....BARUCH SILVERMAN

Demonstrator.....R. VANCE WARD

The instruction in Public Health and Preventive Medicine given to the medical undergraduates is designed to meet the requirements of the practitioner in Medicine.

The importance of Public Health and Preventive Medicine is kept before the student throughout his course. From an historical background are developed the needs and opportunities for preventive medicine, and its social implications.

The Department aims to correlate the teaching of the preventive aspects of medicine with the teaching of other departments in their special fields. In addition, those phases of the subject that are not included elsewhere are covered, such as water, milk and food supplies, public health administration, hygiene of the school child, industrial hygiene and mental hygiene.

The course in Mental Hygiene, included in the teaching of the Department of Public Health and Preventive Medicine, attempts to give the student an understanding of what it is possible to do and of what is being done in the way of preventing nervous and mental diseases, delinquency and crime, and social failure. This implies a knowledge of what is normal in the way of behaviour responses at the different stages of the individual's development; of how we may recognize and deal with significant deviations from the average response; the factors underlying individual success and failure; the place and the means of introducing mental health principles into home, school, social and industrial situations.

The hygiene of the child of school age includes, for consideration, the chief points of a school health service, its scope, and the duties of the

School Medical Officer, a post frequently undertaken by the general practitioner.

Industrial Hygiene deals with the application of the principles of preventive medicine to industry. The various factors which influence the health of work-people are discussed, and the means which may be taken to supervise their health and safety are considered.

A health study of the student's home town, or some other place acceptable to the Department, is required before the beginning of the final year. This study calls for individual field work by each student. This requirement has been waived, however, for the duration of the accelerated course, and has been replaced by a practical problem in public health and preventive medicine on which each student is asked to report.

Required Courses

First Year.

1A. *Public Health*—3 lectures:—Development of the modern public health program, and results; problems of public health and medical care.....Professor Macdonald and Professor Pedley.

1B. *Mental Hygiene*—2 lectures:—Introduction.....Dr. Silverman.

Second Year.

2A. *Public Health Organization*—5 lectures:—International, national, local and voluntary health organization.
Professor Macdonald and Professor Pedley.

2B. *Mental Hygiene*—4 lectures:—Relation to preventive medicine; mental disorders, causes and prevention; community organization and facilities.....Dr. Silverman.

Third Year.

3A. *Hygiene*—11 lectures:—Maternal, Infant, Pre-School, School and Industrial Hygiene.
Professor Macdonald, Professor Pedley and Dr. Ward.

3B. *Mental Hygiene*—12 lectures.....Dr. Silverman.

3C. *Epidemiology and Vital Statistics*—7 lectures.
Professor Macdonald and Professor Pedley.

3D. *Sanitation*—6 lectures.....Professor Macdonald.

3E. *Preventive Medicine, Demonstrations*—6 periods
Chandler Health Centre.

Text-books and reference books:—

The General Field—Mustard; Rosenau.

Industrial Hygiene—The Health of the Industrial Worker, Collis and Greenwood; Industrial Health, Hayhurst, Emery and Kober; Industrial Poisons in the United States, Hamilton.

Mental Hygiene—The Mental Hygiene of Childhood, White.

PHARMACOLOGY AND THERAPEUTICS

Professor and Chairman of the Department.....R. L. Stehle
Associate Professor of Therapeutics.....D. S. Lewis
Assistant Professor of Pharmacology.....K. I. Melville
Lecturer in Therapeutics.....W. de M. Scriver
Lecturer in Anaesthesia.....Wesley Bourne
Lecturer in Pharmacology.....A. M. Fraser*

PHARMACOLOGY

The object of the course in pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

Required Courses

1A. Pharmacology. The action of drugs is considered on the basis of information derived by means of experimental methods and careful clinical observation. The chemistry of the drugs studied is emphasized in order that the student may have a good foundation upon which to follow future developments of the subject intelligently.

Three lectures a week during the Spring Term suplemented by one conference and one demonstration a week.

The conference groups are limited to four students each.

Professors Stehle and Melville.

1B. Pharmacological Laboratory. The experiments are chosen to illustrate the lecture course.

Two periods (six hours) a week during the Spring Term.

Professors Stehle and Melville.

THERAPEUTICS

The teaching of therapeutics will be closely linked with that of medicine.

Required Courses

2. Pharmacy and Prescription Writing. Five lectures and five laboratory periods. Dr. Scriver.

3A. Therapeutics: Didactic Instruction. A series of 20 lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

*On Military Service.

3B. THERAPEUTICS: Theatre Lectures. Fifteen clinical lectures to be given in the hospitals during the year in conjunction with the teaching of the Department of Medicine. Dr. Lewis and Associates.

Text-books in Pharmacology. Cushny, Sollmann, Clark. *Text-books in Therapeutics,* Beckman, Lyon, Reiman, Goodman and Gilman.

OPTIONS

Suitably prepared students may undertake research at any time.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies.

MEDICINE

Professor and Chairman of the Department	JONATHAN C. MEAKINS*
Acting Chairman of the Department	E. S. MILLS
Professor	L. C. MONTGOMERY*
Associate Professors	E. H. MASON, I. M. RABINOVITCH
Assistant Professors	C. C. BIRCHARD, J. S. L. BROWNE, J. KEITH GORDON, J. KAUFMAN, D. S. LEWIS, E. S. MILLS, C. F. MOFFATT, W. deM. SCRIVER.
Lecturers	C. R. BOURNE, G. R. BROW, D. G. CAMPBELL, NEIL FEENEY, A. F. FOWLER, C. W. FULLERTON, R. H. M. HARDISTY. A. T. HENDERSON, E. M. HUNTER, W. R. KENNEDY, J. F. McINTOSH, D. W. McKECHNIE, J. H. PALMER*, COLIN SUTHERLAND, C. J. TIDMARSH, R. VANCE WARD.
Demonstrators	L. J. ADAMS, D. BARZA, J. O. W. BRABANDER, HUGH BURKE, B. R. CUDDIHY, W. W. EAKIN, GUY HAMEL, C. R. JOYCE, H. E. MACDERMOT, J. F. MacIVER, W. G. McLELLAN, D. L. MENDEL, J. G. MUNROE, M. NOTKIN, H. N. SEGALL, A. T. THOM.
Assistant Demonstrators	R. C. BENNETTS, J. J. DAY, M. A. HICKEY, S. ORTENBERG, S. L. RICHARDSON, C. B. SMITH, F. McIVER SMITH.

*On active service.

PSYCHIATRY

Clinical Professor.....C. A. PORTEOUS
Clinical Professor of Neurology.....F. H. MACKAY
Assistant Professor (Neurology).....A. W. YOUNG
Lecturers in Neurology.....G. E. READ, N. VINER
Lecturer.....BARUCH SILVERMAN
Demonstrators.....A. A. MACKAY, C. H. SKITCH

THE CURRICULUM

FOREWORD:

The object of the following course is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease; to afford a knowledge of the technique and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

The University lectures and clinical lectures are open to students of all years. The final examinations may cover any portion of the realm of internal medicine and its various branches of which the examiners may deem it proper that a graduating student should be cognizant.

REQUIRED COURSES.

SECOND YEAR

Course 2A *Integration of Physiology, Biochemistry and Anatomy with Medicine.*

Time—Last term of Second Year.

Place—Medical Building.

Subject Material—

1. Diseases of Lungs.
2. Diseases of Heart, Kidneys, Blood Vessels.
3. Diseases of G.I. Tract.
4. Diseases of Liver, Spleen, and Blood.
5. Diseases of Metabolism.
6. Diseases of Ductless Glands.
7. Clinical Neurophysiology.

Course 2B—*A Practical Course in Clinical Methods.*

Time—Last term of Second Year.

Place—Outpatient Dept. of the Royal Victoria and the Montreal General Hospitals.

Subject—Practical instruction 4 hours a week on Normal Physical Signs.

Course 2C—*Laboratory Diagnosis.*

Time—Last term of Second Year.

Pace—Pathology Building.

Subject—Instruction and practice 2 periods a week in microscopy as applied to clinical medicine.

Dr. McIntosh and Assistants.

THIRD YEAR

Course 3A—*Amphitheatre Clinics in General Medicine.*

Time—Twice weekly throughout year.

Place—Royal Victoria and the Montreal General Hospitals.

Subject—Demonstration and discussion of cases illustrating certain disease processes.

Course 3B—*Bedside Clinics and Practical Demonstrations.*

Time—Twice weekly during the medical trimester.

Place—Wards of the Royal Victoria and the Montreal General Hospitals.

Course 3C—*Clinico-Pathological Conference.*

Time—Weekly during the medical trimester.

Place—The Royal Victoria and the Montreal General Hospitals.

Course 3D—*Case Reporting.*

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope.

Course 3E—*A Practical Course in Diseases of Metabolism.*

Time—Weekly during the medical Trimester.

Place—Royal Victoria and the Montreal General Hospitals.

Subject—This course consists of weekly Ward Rounds in the two Hospitals.

In addition to the above courses General Ward Rounds are held once a week at each Hospital for students reporting Medicine.

Fourth Year

Course 4A—*Amphitheatre Clinics in General Medicine.*

Time—Once a week throughout year.

Place—Alternately at the Royal Victoria and the Montreal General Hospitals.

Subject—Demonstration and discussion of cases illustrating certain disease processes.

Course 4B—*Bedside Clinics and Practical Demonstration.*

Time—Twice weekly during medical trimester.

Place—Wards of the Royal Victoria and the Montreal General Hospitals.

Course 4C—*Clinico-Pathological Conference.*

Time—Once a week during medical trimester.

Place—Royal Victoria and the Montreal General Hospitals.

Course 4D—*A Practical Course in Diseases of Metabolism.*

Time—Weekly during the medical trimester.

Place—Royal Victoria and the Montreal General Hospitals.

Subject—This course consists of weekly Ward Rounds in the two Hospitals.

Course 4E—*Clinical Therapeutics—practical instruction.*

Time—Once a week for one trimester.

Place—Royal Victoria and the Montreal General Hospitals.

Course 4F—*A Course of Lectures in Medicine and Specialties.*

Time—Four periods a week throughout year.

Place—Medical Building and the Montreal Neurological Institute.

Subject—Lectures in General Medicine and Allied Specialties.

In addition to the above courses General Ward Rounds are held once a week at each Hospital for students reporting Medicine.

From time to time special Elective Courses are given at the Hospitals in such subjects as Hæmatology, Cardiology, etc.

Text and Reference Books

Clinical Methods and Physical Diagnosis:—Todd, "Clinical Methods"; Flint, "Physical Diagnosis"; Major, "Physical Diagnosis"; Murray, "Examination of the Patient"; Gradwohl, "Clinical Laboratory Methods and Diagnosis"; Hutchison and Hunter, "Clinical Methods"; Cabot, "Physical Diagnosis"; Department of Medicine, McGill University, "Guide to Medical Case Reporting".

General Medicine:—McLeod, "Physiology in Modern Medicine"; Best and Taylor, "Physiological Basis in Medical Practice"; Meakins, "Practice of Medicine"; Cecil, "Text Book of Medicine"; Davis, "Cyclopedia of Medicine"; Rolleston, "The British Encyclopaedia of Medical Practice"; Lewis, "Diseases of the Heart"; White, "Heart Disease"; Norrs and Landis, "Diseases of the Chest"; Eusterman and Balfour, "Stomach and Duodenum"; Hurst and Stuart, "Gastric and Duodenal Ulcer"; Joslin, "Diabetic Manual"; "Treatment of Diabetes Mellitus"; McLester, "Nutrition and Diet in Health and Disease"; Lusk, "Science of Nutrition"; Peters and Van Slyke, "Quantitative Clinical Chemistry"; Vol. 1, Interpretations; DuBois, "Basal Metabolism in Health and Disease"; Kurzrok, "The Endocrines in Obstetrics and Gynæcology"; Clendening, "Methods of Treatment"; "Pharmocopoea of the Teaching Hospitals".

Psychiatry:—White, "Outlines of Psychiatry"; Henderson and Gillespie, "A Text of Psychiatry" (1936); Bernard Hart, "The Psychology of Insanity".

Neurology:—Brock, "The Basis of Clinical Neurology"; Cobb, "A Preface to Nervous Diseases"; Grinker, "Neurology".

Dermatology:—Walker, "Introduction to Dermatology"; MacLeod, "Diseases of the Skin"; Sutton and Sutton, "Diseases of the Skin"; Ormsby, "Diseases of the Skin".

TOXICOLOGY AND MEDICAL JURISPRUDENCE

A series of twenty-four lectures and demonstrations.

Professor Rabinowitch.

Toxicology: i. Definitions. ii. Occurrence of Poisoning—Accidental. (Food. Industrial. Clothes and Cosmetics. Patent Medicines. Therapeutic. Other). Suicidal. Homicidal. iii. Mode of Action of Poisons: Modifying Causes—Amount. Form. Mode of Entry into Body. Age. Habit. Sleep. Physical Condition of Subject. Idiosyncracy. Other. iv. Classification of Poisons. v. Acute Poisoning: Diagnosis—Similarity Between Poisoning and Disease. General Evidence of Poisoning. Rules for Diagnosis. Treatment: Principles. General Treatment.

Antidotes—Specific. Other. Treatment of Common Forms of Poisoning. vi. LEGAL: Control of Poisons—Dangerous Drugs Acts and Regulations. Relation of Doctor to Pharmacist. Administration of Noxious Drugs. Narcotics. vii. MEDICO-LEGAL CONSIDERATIONS IN CASES OF POISONING: Accident. Suicide. Murder. Duty of Doctor—In Suspected Cases. In Known Cases. Collection of Suspected Materials for Chemical Examination. Post-mortem Examinations in Cases of Poisoning. Chemical Analysis.

MEDICAL JURISPRUDENCE: A. i. INTRODUCTION: Definitions—Law. Forensic Medicine. ii. LEGAL POSITION OF DOCTORS: Registration—Privileges. Supervision—Medical Councils. iii. OBLIGATION OF DOCTOR TO THE STATE: Medical Notifications and Certifications—Births. Stillbirths. Infectious Diseases. Deaths. Other. iv. RESPONSIBILITIES TO PATIENT: Implied and Expressed Contracts. Professional Secrecy. Privileged Communications. Medico-legal Aspects of Physical Examinations—Circumstances that Demand Examination. Consent in Examination. v. MALPRACTICE: Civil. Criminal. Negligence. Contributory Negligence. Errors of Commission. Consultations. Responsibility for Assistants. "Reasonable Skill". "Reasonable Care and Judgment". B. LEGAL CRIMINAL PROCEDURE: i. INVESTIGATION OF SUDDEN DEATHS AND DEATHS FROM UNNATURAL CAUSES—Communication between Doctor and Coroner. Coroner's Court. Subpoenas. ii. MEDICAL EVIDENCE: (a) Documentary—Certificates. Reports. Written Opinions. Dying Declarations. Res Gestae. (b) Oral—Common Witness. Expert Testimony. Use of Notes. Use of Books. (c) Experimental Evidence. iii. GENERAL RULES OF CONDUCT FOR MEDICAL WITNESSES: Professional Secrecy. Privileged Communications. Precognitions. Fees. (c) MEDICO-LEGAL ASPECTS OF DEATH: i. SIGNS OF DEATH: Real Death—Somatic. Molecular. Tests for Cessation of Respiration and Circulation. Eye Changes. Cooling of Body. Hypostasis. Changes in Muscular System—Flaccidity. Contact Flattening of Muscles. Rigor Mortis—Conditions which Modify Onset and Duration of Rigor Mortis. Conditions Simulating Rigor Mortis. Cadaveric Spasm. Putrefaction. Conditions Affecting Rate of Putrefaction. Mummification. Adipocere Formation. Other Agents in the Destruction of the Body. ii. APPARENT DEATH. iii. PROXIMATE CAUSES OF DEATH—Syncope. Asphyxia. Coma. iv. SUDDEN DEATH—Natural. Violent. v. PRESUMPTION OF DEATH—Presumption of Survivorship. vi. MEDICO-LEGAL FORMS OF DEATH: Mortal Wounds. Burning and Scalding—Thermal Burns. X-Rays Burns. Burns from Corrosive Fluids. Lightning. Electrical Currents. Judicial Electrocution. Heat Exhaustion and Heat Stroke. Cold and Exposure. Suffocation. Drowning. Hanging. Judicial Hanging. Strangulation. Throttling. Criminal Neglect and Starvation. vii. POST-MORTEM EXAMINATIONS FOR MEDICO-LEGAL PURPOSES—General Procedures: Special Procedures. Exhumations. Embalming. Cremation. viii. IDENTIFICATION OF THE DEAD—Age. Sex.

Race. Stature. Development. Hair. Eyes. Teeth. Occupation Marks. Deformities and Peculiarities, etc. Burned Bodies. Skeletal, Dismembered and Mutilated Remains. D. PERSONAL IDENTITY IN ITS MEDICO-LEGAL BEARINGS: For Civil Purposes. For Criminal Purposes. Anthropometry. Dactylography. Teeth. Scars and Tattoo Marks. Birth Marks. Occupation Marks. Congenital Deformities. Mistaken Identity. E. BLOOD STAINS: Medico-legal Information from Blood Stains—Collection of Suspected Materials. Examination of Blood Stains. Stains which Resemble Blood. Blood Grouping. F. WOUNDS: i. Legal Definition. ii. Abrasions. Contusions. Lacerated, Incised, Stab and Punctured Wounds. Wounds from Firearms. Wounds in Various Parts of the Body. iii. Medico-legal Examination of a Wounded Person—Duty of a Medical Man when called to Examine a Wounded Person—Is the Wound Suicidal, Homicidal or Accidental? iv. Causes of Death from Wounds—Direct, Indirect. v. Wounds after Death. G. MEDICO-LEGAL ASPECTS OF PREGNANCY: i. Reasons why Pregnancy may be Feigned. i. Signs of Pregnancy. iii. Period of Gestation—Abnormal Gestation and Legitimacy. iv. DELIVERY—Signs in the Living. Signs in the Dead. v. Civil Aspects of Birth—Inheritance. H. ABORTION: i. Natural. Therapeutic. Criminal. ii. Duty of Doctor in Case of Suspected Criminal Abortion. Duty in Case of Known Criminal Abortion. iii. Post-Mortem Examination. I. IMPOTENCE and STERILITY. J. RAPE: i. Physical Signs in Adults and Children. i. Medico-legal Examination in a Case of Alleged Rape. K. INFANTICIDE: i. Legal Definition of Live Birth—Civil Cases. Criminal Cases. ii. Stillbirths. iii. Causes of Death to the Foetus. iv. Medico-legal Examination in Cases of Suspected Infanticide—Test Determining Whether a Child was Born Dead or Alive. v. Concealment of Birth. vi. Concealment of Pregnancy. L. MENTAL UNSOUNDNESS: i. Legal Definitions. ii. Types of Insanity. iii. Insanity and Responsibility—Testamentary Capacity. Criminal Responsibility. iv. Medico-legal Procedures—Physical Examinations in Cases of Suspected Insanity. Medical Certification of the Insane. Protection of Certifying Physicians. Admission of Voluntary Patients to Institutions for the Insane. M. DRUNKENNESS: i. Diagnosis—Clinical. Chemical. ii. Medico-legal Aspects of Alcoholism—Civil. Criminal.

Text and Reference Books:—Buchanan's Text Book of Forensic Medicine and Toxicology. Medical Jurisprudence and Toxicology—Glaister. Forensic Medicine—Kerr. Forensic Medicine—Littlejohn. Forensic Medicine and Toxicology—F. J. Smith. Forensic Medicine—Sydney Smith. Recent Advances in Forensic Medicine—Sydney Smith and Glaister. Taylor's Principles and Practice of Medical Jurisprudence. A Synopsis of Forensic Medicine and Toxicology—Thomas. Legal Medicine and Toxicology—Webster.

PAEDIATRICS

Professor and Chairman of the Department..... R. R. Struthers

Associate Professor..... S. Graham Ross

Assistant Professors..... A. Goldbloom, L. Lindsay, A. K. Geddes*

Lecturers..... Alan Ross*, Jessie Boyd Scriver, H. P. Wright*

Demonstrators..... E. M. Worden, S. J. Usher

Assistant Demonstrator..... B. Benjamin

Sessional Demonstrators..... C. Stewart, S. I. Doubilet, J. H. O'Neill, S. B. Shapiro, F. Shippam

Required Courses

1. Lecture Course: A series of lectures on paediatrics, intended as an introduction to various aspects of Diseases of Children—Hygiene—Nutrition—Infections—Family Relationships—Infectious Diseases and Preventive Medicine.

   Once a week during the Autumn, Winter and Spring terms (as announced) at the Medical Building or at the Children's Memorial Hospital. Professor Struthers and Assistants.

2. Diseases of the Newborn: Royal Victoria Maternity Pavilion.

   A weekly clinic-demonstration to groups of students of the Third Year during their Obstetrics Trimester.

   Professor Ross, Drs. Scriver and Worden.

3. Clinical Paediatrics: During the final year the class is divided into groups, each group devoting five weeks to the study of the diseases of childhood, including: (a) General Paediatrics—Children's Memorial Hospital. Daily bedside clinics by members of the department during the five week period spent by each student in attendance at the Children's Memorial Hospital—presentation of cases—discussion of case reports—ward rounds and staff rounds.

   Staff Members.

   (b) Normal Infant Feeding, Care and Development and Preventive Paediatrics. Immunization Procedures—Montreal Foundling and

*On Military Service.

Baby Hospital. Drs. Scriver, Usher, Benjamin. Child Welfare Association clinics.

(c) Infectious Diseases: A series of demonstrations to groups of students on the common infectious diseases, is given at the Alexandra Hospital. Drs. Worden, C. Stewart.

Text-books:—Holt and McIntosh, "Diseases of Infancy and Childhood"; Griffith and Mitchell, "Diseases of Infants and Children"; Porter and Carter, "Management of the Sick Infant and Child"; Brown and Tisdall, "Common Procedures in Paediatrics".

Reference Books:—Brenneman, "Practice of Paediatrics" (4 volumes); Parsons and Barling, "Diseases of Infancy and Childhood". (2 volumes); Langdon, "Home Guidance for Young Children"; Abt's "Paediatrics" (8 volumes); Still, "Common Disorders and Diseases of Childhood"; John Thomson, "Clinical Study and Treatment of Sick Children".

NEUROLOGY AND NEUROSURGERY

Professor and Chairman of Department.....WILDER PENFIELD
Associate Professor.....WILLIAM CONE
Associate Professor of Neurology....COLIN RUSSEL
Clinical Professor of Neurology.....F. H. MACKAY
Assistant Professors of Neurology..{ARTHUR W. YOUNG
DONALD MCEACHERN*
Assistant Professor of Neuropsychiatry.....MIGUEL PRADOS
Assistant Professor of Neurosurgery.ARTHUR ELVIDGE
Assistant Professor of Radiology....A. E. CHILDE
Assistant Professor of Neurophysiology.....HERBERT JASPER
Lecturers in Neurology.....{JOHN KERSHMAN
F. L. MCNAUGHTON
J. N. PETERSEN
NORMAN VINER
Lecturer in Neuropathology.....KARL STERN
Demonstrators in Neurosurgery....{MURTON SHAVER
O. W. STEWART*
Demonstrator in Neurological Electrography.....ANDRÉ CIPRIANI*
Assistant Demonstrators in Neurosurgery.....{G. K. MORTON
PETER LEHMANN
Research Fellows.....{T. S. BENNETT
E. S. LOTSPEICH
W. D. ROSS*

*On Military Service.

Courses Offered in Neurology and Neurosurgery

Second Year.

2A. *Clinical Neuroanatomy and Neurophysiology.* 4 lectures. Dept. of Medicine. Dr. McNaughton.

2B. *Physical Examination of the Nervous System.* 2 theatre clinics. Dept. of Medicine. (1 at M.G.H., 1 at R.V.H.). Prof. F. H. Mackay.

Third Year.

3A. *Survey of Neurology and Neurosurgery.* 8 lectures, Dept. of Medicine, 8 lectures, Dept. of Surgery. M.N.I. amphitheatre. Professor Penfield and Professor Russel.

3B. *Neuropathology.* 8 lectures, Dept. of Pathology. Pathology amphitheatre. Dr. Karl Stern and Professor Penfield.

Fourth Year.

4A. *Neurological and Neurosurgical Clinics.* 6 theatre clinics, Dept. of Medicine, 6 theatre clinics, Dept. of Surgery. M.N.I. amphitheatre. Professor Penfield, Professor Russel and staff.

4B-1 *Neurological O.P.D.* R.V.H. Outpatient Department. Monday and Thursday afternoons. Professor Russel and assistants.

4C-1 *Neurology Ward Classes.* Dept. of Medicine. Wednesdays. M.N.I. (R.V.H. group). Professor Russel.

4B-2 & 4C-2 *Combined Neurological O.P.D. and Ward Classes.* M.G.H. Monday and Friday afternoons. (M.G.H. group). Prof. F. H. Mackay and assistants.

4D-1 *Neurosurgery Ward Classes.* Dept. of Surgery. M.N.I. (R.V.H. group). Dr. Cone.

4D-2 *Neurosurgery Ward Classes.* Dept. of Surgery. M.N.I. (M.G.H. group). Dr. Elvidge.

Elective Courses.

I. *Clinics on Diseases of the Nervous System.* R.V.H. Outpatient amphitheatre, Tuesdays 3-4 o'clock. Professor Penfield.

II. *Contribution of the Basic Sciences to Neurology.* M.N.I. Tuesdays 5.30 p.m. Various members of the Department of Neurology and Neurosurgery, organized by Dr. McNaughton.

III. *Introduction to the Study of Psychological Medicine.* 5 lectures. M.N.I. Dr. Prados.

IV. *Advanced Neuroanatomy* (Anatomy 4). Construction of Model of Human Brain. M.N.I. Monday and Tuesday 8-10 p.m. (Registration limited to 10). Drs. McNaughton and Kershman.

SURGERY

Professor and Chairman of the Department of Surgery.....F. E. McKenty

Professors.....F. B. Gurd

Associate Professor.....J. C. Armour

Assistant Professors.....R. R. Fitzgerald, J. G. W. Johnson, C. A. McIntosh*, L. H. McKim*, G. Gavin Miller, D. E. Ross, A. Ross, A. J. Stewart, H. L. Dawson, A. L. Wilkie, H. M. Elder*, F. J. Tees

Lecturers.....C. Luke*, S. J. Martin, H. F. Moseley, P. G. Rowe, S. G. Baxter, H. G. Pretty

Demonstrator.....E. M. Cooper

Sessional Demonstrators.....C. J. F. Phillipps-Wolley, G. A. P. Hurley

Assistant Demonstrators.....F. D. Ackman, H. A. Baxter, E. H. Cayford, H. S. Dolan, G. D. Little, C. K. McLeod, H. Graham Ross, J. C. Sutton

ORTHOPAEDIC SURGERY

Clinical Professors.....J. A. Nutter, W. G. Turner

Lecturers.....W. J. Patterson, N. T. Williamson

Assistant Demonstrators.....

ANAESTHESIA

Lecturers.....Wesley Bourne, M. D. Leigh, C. C. Stewart, F. A. H. Wilkinson

Assistant Demonstrator.....A. M. Torrie

SURGERY

Instruction in surgery and the surgical specialties is given in the form of didactic lectures, amphitheatre clinics and demonstrations and group teaching in the wards and out-patient department of the teaching hospitals. The course is graded. The student must qualify in each year before proceeding to the next.

*On Military Service.

Required Courses

Second Year.

Surgical teaching begins in the spring term (16 weeks) of the Second Year. In this year special attention is directed to the instruction and training of the student, in proper methods of physical examination, from the surgical point of view. At the same time, instruction is given in methods of surgical technique, and the student is introduced to the simpler types of fractures and dislocations.

Courses.

2A. *Amphitheatre clinics*, in the Montreal General Hospital and Royal Victoria Hospital, two days a week during the term.

2B. *Group classes* in the wards of the Montreal General and Royal Victoria Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

Third Year.

The student comes into a more intimate contact with the patients, and in the surgical trimester is assigned cases, writes case reports, acts as dresser, and assists at operations.

Courses.

3A. *Amphitheatre Clinics and Demonstrations* in the Montreal General and Royal Victoria Hospitals, two days a week throughout the year.

3B. *Group Ward classes* in the Montreal General and the Royal Victoria Hospitals, once a week during the term.

3C. *Case Reporting.* Patients are allotted to students who act as reporters, dressers, and assistants at operations.

3D. *Military Lectures.* A course of 8 lectures on War Surgery, one evening a week.

Fourth Year.

Courses.

4A. *Amphitheatre Clinics and Demonstrations* in the Montreal General and Royal Victoria Hospitals alternately, once a week throughout term.

4B. *Group ward classes* in the Montreal General and Royal Victoria Hospitals, twice a week during the term.

4C. *Case Reporting.*

4D. *Clinico-Pathological conferences* once a week during the term, jointly with the Department of Pathology, at the Montreal General and Royal Victoria Hospitals.

4E. *Military Lectures.* A course of 8 lectures on War Surgery, one evening a week.

Surgical Diseases of Children.—Instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Children's Memorial Hospital, as follows:—

4A. *Amphitheatre Clinics* once a week throughout trimester.

4B. *Group Ward Classes* three times a week throughout trimester.

Orthopaedic Surgery

Fourth Year Courses.

4A. *Clinical Lectures.* A course of 8 lectures given at the University.

4B. *Ward Classes* at the Montreal General and Royal Victoria Hospitals, once a week during the surgical trimester.

4C. *Group Classes in the Out-door Department* of the Montreal General and Royal Victoria Hospitals, twice a week during the surgical trimester.

Anaesthesia.—Instruction in anaesthesia is given by the Department of Pharmacology and Clinical Therapeutics. Students are given practical instruction in the administration of anaesthetics, during their surgical trimesters in the Third and Fourth Years at the Montreal General and Royal Victoria Hospitals.

Close correlation is maintained with the Departments of Anatomy and Physiology as well as with the concurrent instruction in Medicine, Pathology and Bacteriology.

The course is graded and the student is required to qualify in each grade before he is permitted to advance to succeeding grades.

Text-books:—

1. *General Surgery:* John Homans, "A Text-book of Surgery"; Choyce, C. C., "A System of Surgery"; Gask and Wilson, "Surgery"; Hamilton Bailey, "Demonstrations of Physical Signs in Clinical Surgery"; Christopher Cole and Elman; Romanis and Mitchener; Handfield, Jones and Porrett, "The Essentials of Modern Surgery"; Rose and Carless, "Manual of Surgery"; Berman's Synopsis of Principles of Surgery; Pack and Livingston's "Treatment of Carcinoma"; Christopher's "Minor Surgery".

2. *Emergency Surgery:* Sluss, John W., "Manual of Emergency Surgery".

3. *Surgical Anatomy:* McGregor, "Synopsis of Surgical Anatomy"; Treves, "Surgical Applied Anatomy".

4. *Fractures and Dislocations:* Scudder, Charles L., "Treatment of Fractures"; Wilson and Cochrane, "Fractures and Dislocations"; Magnuson's "Fractures"; Stimson's "Manual of Fractures and Dislocations"; Wilson's "Management of Fractures"; Key and Conwell's "Fractures and Dislocations"; Watson Jones "Fractures and other Bone and Joint Injuries"; Key and Conwell, "Fractures, Dislocations and Sprains".

5. *Case Reporting:* White, J. Renfrew, "The Clinical Examination of Surgical Cases"; Geckeler's Fractures and Dislocations.

6. *Urology:* Eisendrath and Rolnick's "Urology"; Herman's "Practice of Urology"; Hinman's "Principles and Practice of Urology"; Keyes and Ferguson's "Urology"; Young's "Practice of Urology"; Le Comte's Manual of Urology.

7. *Orthopaedic Surgery:* Whitman's "Orthopædic Surgery"; Jones, "Orthopædic Surgery of Injuries"; Jones and Lovett, "Orthopædic Surgery"; Mercer's "Orthopædic Surgery"; Willis Campbell's "Orthopædic Operations"; Sever's "Handbook of Operative Surgery"; Steindler's "Orthopædic Operations".

UROLOGY

Professor.....F. S. PATCH

Clinical Professors.....R. E. POWELL, E. S. SMITH

Lecturer.....M. I. SENG

Demonstrators.....A. B. HAWTHORNE, A. M. J. TANNEY

SECOND YEAR.

2A. *Clinical Urology.*

Group classes, 4 demonstrations, in which instruction in methods of Urological examination is given in the Montreal General and Royal Victoria Hospitals.

(See Surgery—2B).

FOURTH YEAR.

4A. *Survey of Urology.* 12 lectures.

In the Surgical trimester:—

4B. *Urological Clinics*—Ward Classes.

The Montreal General Hospital—2 classes a week.

Royal Victoria Hospital—3 classes a week.

4C. *Case Reporting in Urological Wards.*

4D. *Clinico-Pathological Conference.*

Once a week at the Montreal General Hospital.

4E. *Venereal Disease.*

One demonstration a week in the Outpatient Departments of the Montreal General and Royal Victoria Hospitals.

OBSTETRICS AND GYNÆCOLOGY

Professor and Chairman of the Department..... J. R. Fraser

Associate Professors..... A. D. Campbell, N. W. Philpott

Clinical Professor..... J. W. Duncan

Assistant Professor..... W. A. G. Bauld

Lecturers..... J. S. Henry, P. J. Kearns, G. C. Melhado, Ivan Patrick, Eleanor Percival

Demonstrators..... Douglas Gurd, K. T. MacFarlane, C. V. Ward*

Assistant Demonstrator..... G. B. Maughan*

A. A. Brown Fellow.....

Teaching Fellow.....

Sessional Lecturers..... George Strean, G. T. Altimas

The entire course is arranged on the basis of imparting a practical knowledge of Obstetrics, Gynaecology and the Care of the New-born. Throughout all trimesters the value of intimate contact with the patient in the normal and the pathological state is stressed.

The privilege of serving as an interne in the hospital for two weeks treating the patients from the time of admission till discharge from hospital is an ideal arrangement. Rooms are provided in the Women's Pavilion where the students may reside, in groups of six, during this period.

*On military service.

OBSTETRICS

Required Courses

Third Year.

1. Thirty-five Clinical Conferences for all Third Year students, Wednesday 12.45-1.45 p.m., illustrating the more important Obstetrical conditions. Prof. Fraser.

2. Thirty-five lectures relative to the anatomy and physiology of the pelvis as well as a general introduction to Obstetrics and associated Gynaecological lesions. Prof. Philpott.

3. Thirty demonstrations are given in Obstetrical palpation and on the manikin, with the aid of models, diagrams, lantern slides and moving pictures. Given by Members of the Staff.

4. Clinical instruction for twelve periods in case-rooms and wards. Given by Members of the Staff.

5. Six lectures concerning early development of the embryo and the placenta. Given by Members of the Staff.

6. Six lectures or demonstration periods relative to the care of the New-born. Prof. Struthers and Prof. Ross.

Fourth Year.

1. Thirty-five Clinical Conferences for all Fourth Year students, Wednesday, 12.45-1.45 p.m., illustrating the more important Obstetrical conditions. Prof. Fraser.

2. Staff Conference held once a week is arranged to give a complete account of the work of the hospital. This is attended by those students in the current Obstetrical Trimester. Prof. Philpott.

3. Fifteen lecture demonstrations are held in the Lecture Theatre on the following subjects:—

   Normal Labour.....Prof. Philpott and Dr. Foote.
   Dystocia.....Prof. Bauld and Dr. Melhado.
   Toxaemia of Pregnancy..Prof. Duncan and Dr. Kearns.
   Haemorrhage.....Dr. Patrick and Dr. Henry.
   Puerperal Infection.....Prof. Campbell and Dr. MacFarlane.

4. Special Theatre Clinic conducted each Saturday at 9 a.m. to 10 a.m. for the term group. Prof. Campbell.

5. Fourteen instruction periods including conduct of pregnancy, labour and puerperium in Out-patient Department, Case-rooms and Wards. Given by Senior Members of Staff.

GYNÆCOLOGY

1. Theatre clinics and bedside instruction in the Royal Victoria and Montreal General Hospitals. Professors Fraser, Campbell and Staff.
2. A special course on Gynæcological Pathology. Dr. P. J. Kearns.
3. Methods of Gynæcological examination, diagnosis and treatment in the outdoor departments.
4. A special course of instruction, once a week, through the year in the cancer clinic on methods of diagnosis and treatment of cancer, dealing especially with Radium and X-Ray. Prof. Bauld and Staff.

Text and Reference Books

Obstetrics.

(1) De Lee	Principles and Practice of Obstetrics.
(2) Stander	Text book on Obstetrics.
(3) Ten Teachers	Midwifery.
(4) Harper	Clinical Obstetrics.
(5) Bourne	Synopsis of Midwifery and Gynæcology.
(6) Johnson, R. W.	Text book of Midwifery.
(7) Bland	Practice of Obstetrics.
(8) Miller, J.	Manual of Obstetrics.
(9) Appleton	Obstetrical and Gynæcological Monographs.
(10) Peterson	Demonstration Course in Obstetrics.
(11) Irving	Text book on Obstetrics.
(12) Beck	Obstetrical practice.
(13) Adair	Obstetrics.

Gynæcology.

(1) Graves	Text book of Gynæcology.
(2) Curtis	Text book of Gynæcology and System of Gynæcology and Obstetrics.
(3) Ten Teachers	Diseases of Women.
(4) Monroe Kerr	Gynæcology.
(5) Blair Bell	Principles of Gynæcology.
(6) Kelly, Howard	Text book of Gynæcology.
(7) Goodall	Puerperal Infection.
(8) Crossen	Gynæcology.
(9) Kennedy, Campbell	Vaginal Hysterectomy.

OPHTHALMOLOGY

Professor and Chairman of the Department.....J. A. MacMillan
Assistant Professor.....Stuart Ramsey
Lecturers.....K. B. Johnston, J. Rosenbaum
Assistant Demonstrator.....B. Alexander

The undergraduate work in Ophthalmology, which is designed to meet the needs of a well-trained general practitioner, embraces the following courses in the Third and Fourth Year of the Medical Course:—

Third Year.

1. Routine Examination of the Eye.

In this work the class in small groups is drilled in the various tests in the routine examination of the eye, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum outlay for equipment. Instruction in the use of the ophthalmoscope and familiarization with the appearance of the normal fundus of the eye are an important feature of this preliminary course.

Five hours.....Professor MacMillan and members of the Staff.

Third Year.

2. Lecture Demonstrations to Entire Class.

This course, variously illustrated, covers the general principles and the systematic side of the subject. It has been designed to furnish a background of essential information for the clinical work of the Final Year.

Ten hours.....Professor MacMillan.

Fourth Year.

Clinical Ophthalmology.

This teaching is conducted in the Ophthalmic clinics and wards of the Montreal General and Royal Victoria Hospitals. The class is divided into groups of ten, each group receiving twenty-five hours instruction. Ocular problems that are of greatest moment in general practice are discussed. This includes the external diseases of the eye, the main ophthalmological findings in systemic disorders, affections of the nervous system, and as far as possible a co-relation of the clinical and histological ocular changes.

Professor MacMillan and members of the Staff.

Text-books:—May, Gifford, Parsons, Berens.
Reference books:—Duke-Elder.

OTO-LARYNGOLOGY

Assistant Professor and Chairman of the Department.....D. H. BALLON

Assistant Professor.....G. E. HODGE

Lecturers.....W. J. McNALLY, R. P. WRIGHT*, K. O. HUTCHISON, G. E. TREMBLE, A. O. FREEDMAN

Assistant Demonstrators.....G. E. M. HILTON, F. W. SHAVER

Instruction in Oto-Laryngology is given to students of the third and fourth years and is designed to meet the needs of the general practitioner.

The clinical courses are carried on in the wards and out-patient departments of the Montreal General and the Royal Victoria Hospitals, where the large clinics afford the students ample opportunity of receiving practical instruction. In these two hospitals there are about fifty beds set apart for this specialty.

The practical work is conducted in small groups so that personal instruction and supervision are given to each student.

Medical motion pictures are used as a supplement to the class-room lecture and clinical demonstration.

THIRD YEAR:

A course of 10 demonstrations is given to students of the Third Year. These demonstrations deal with the normal anatomy of the ear, nose and throat, and with methods of examination. The students are required to examine the patients and recognize the normal and common pathological conditions of the ear, nose and throat. Ward rounds are made to illustrate the pre- and post-operative methods of treatment.

LECTURE COURSE:

Ten practical illustrated lectures are given to the whole class. Special emphasis is laid on those surgical procedures which the general practitioner should be capable of performing.

Instruction will be given on the practical value of the bronchoscope in the diagnosis and treatment of diseases of the tracheo-bronchial tree and the œsophagus.

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*On military service.

FOURTH YEAR:

Ten clinical demonstrations are given in the out-patient departments and wards of the hospitals. The students are expected to examine the patients and report on them. Differential diagnosis and treatment is stressed.

Text and Reference Books:—Sir St. Clair Thomson: Diseases of the Nose and Throat; A. Logan Turner: Diseases of the Nose, Throat and Ear; Chevalier Jackson and G. M. Coates: The Nose, Throat and Ear and Their Diseases; Philip O. Kerrison: Diseases of the Ear; Chevalier Jackson: Bronchoscopy, Oesophagoscopy and Gastroscopy; D. H. Ballon; Chapters on Bronchoscopy and Oesophagoscopy in Surgical Diseases of the Chest by Evarts A. Graham, J. J. Singer, Harry C. Ballon.

RADIOLOGY

Associate Professor and Chairman of the Department ..... CARLETON B. PEIRCE
Assistant Professor ..... W. L. RITCHIE
Assistant Professors ..... E. C. BROOKS, A. E. CHILDE
Demonstrators ..... J. W. MCKAY, M. BEATON, J. BOUCHARD*

COURSES OFFERED IN RADIOLOGY

FIRST YEAR.

In co-operation with the Department of Anatomy a series of 6 demonstrations are given. In this series film studies of bone, lungs, and other parts of the anatomy are shown, and fluoroscopic demonstrations of movements in joints, of the diaphragms, and heart. These are given by Associate Professor Peirce and staff.

SECOND YEAR.

Demonstration are given to small groups of students in both the Montreal General Hospital and the Royal Victoria Hospital. These demonstrations are an introduction to the various methods of radiological examinations used in approach to diagnosis. These are given at the Royal Victoria Hospital by Associate Professor Peirce and staff, and at the Montreal General Hospital by Associate Professor Ritchie and staff.

*On military service.

THIRD YEAR.

A course of 20 lectures are given at the University by Associate Professors Ritchie and Peirce, and Assistant Professors Brooks, Childe and McKay. These lectures cover the direct application and interpretation of roentgenology to the problems of Medicine, Surgery, Obstetrics and other clinical specialties, and also uses and application in therapy.

FOURTH YEAR.

A course of seven lectures are given on subjects of special clinical interest. These are given by Associate Professors Ritchie and Peirce and Assistant Professors Brooks, Childe and McKay. Throughout the year in the different teaching hospitals, a weekly conference of one hour's duration is held for clinical roentgenological consideration of cases in hospital. Also students attend Tumor Clinics weekly where possible.

POST GRADUATE INSTRUCTION.

At the teaching hospitals of McGill Medical School, opportunities are afforded for graduates to fulfil the requirements of the Specialty Board of Radiology held under the jurisdiction of the Royal College of Physicians and Surgeons of Canada and of the American Board of Radiology.

PSYCHIATRY

Professor and Chairman of the Department ..... D. EWEN CAMERON

A Department of Psychiatry has been formed during the past session. Appointments are being made and courses of instruction have been drawn up. Further details will be announced during the session. Pending the completion of these steps, teaching in Psychiatry is being continued as in the previous year.

RESEARCH INSTITUTE OF ENDOCRINOLOGY

Director ..... J. B. COLLIP

Lecturers ..... ROBERT L. NOBLE, A. H. NEUFELD

Fellow ..... HECTOR MORTIMER

Sessional Lecturer ..... C. GWENDOLINE TOBY

This Institute established in 1941 and housed in the West Wing of the Medical Building is devoted to research in the fundamentals of endocrinology. It is not an undergraduate teaching department, but is closely associated with the Faculty of Graduate Studies and Research and the Faculty of Medicine and affords facilities for properly qualified graduates to work for the Ph.D. degree.

The Institute is under the direction of Professor J. B. Collip, Gilman Cheney Research Professor of Endocrinology. Dr. Robert L. Noble is the senior assistant in the Physiological branches of the subject and Dr. A. H. Neufeld is the senior assistant in the biochemical branches.

A limited number of graduate students will be accepted. Entrance requirements are either the degree of Doctor of Medicine with high standing in the courses for that degree, or the M.Sc. degree in Physiology or Biochemistry or its equivalent in training in these subjects.

The minimum period in which a student with a B.Sc. or an M.D. degree can obtain a Ph.D. degree is three years. A student with an M.Sc. degree or its equivalent may qualify for the Ph.D. degree in a minimum of two years. It is not proposed to do any didactic teaching in the Institute, but candidates for a Ph.D. degree will be required to pass a comprehensive examination in the subject and to submit a thesis.

Inquiries concerning the Institute should be addressed to the Director.

GRADUATE INSTRUCTION

1. Any medical graduate of McGill University who so desires may attend any of the regular undergraduate clinics. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.

2. Special graduate work is offered in every department, both in the laboratories and in the clinics. Applications in writing, addressed to the chairman of the department concerned, must state the qualifications and experience of the applicant and the nature of the work he desires to do. The minimum fee is $30.00 a term (10 weeks).

*3. Course for Diploma in Public Health: This course is specially designed as a thorough training for medical men in public health.

The duration of the course is one academic year.

The curriculum is as follows:—

(a) A course dealing in a comprehensive manner with the general principles of Public Health and Preventive Medicine.

(b) A course covering health organization, legislation and administration.

(c) A course on vital statistics and records, including practical work.

*Suspended for the present session,

(d) Courses in bacteriology and parasitology, including laboratory work.

(e) Field work: Arrangements made with the Department of Health, Montreal, and the voluntary health agencies of Montreal.

Seminars are held throughout the year. Arrangements are made for special courses in such subjects as tuberculosis, venereal disease, etc., and for special visits.

Examinations are written, oral and practical.

The inclusive fee for the course is $155 for British subjects and $205 for non-British subjects.

*4. Course for Diploma in Veterinary Public Health: A course leading to a Diploma in Veterinary Public Health (D.V.P.H.) has been organized under the Department of Public Health and Preventive Medicine, and is open to graduates of recognized schools of veterinary medicine.

The purpose of the course is as prepare veterinarians to render better service in the fields of public health, particularly in the control of food and milk supplies, into which they are now being brought.

The work occupies one academic year, with approximately 36 hours of instruction (lectures and laboratory work) per week.

The curriculum includes Public Health, Physiology, Dairy Bacteriology, Nutrition, Milk and Meat Hygiene, Epizootology and Public Health Parasitology.

The tuition fee for the course is $150.

THE MEDICAL BUILDING

This Building, erected in 1911, at a cost of over $600,000, contains the Offices of Administration, the Medical Library (with its 50,000 volumes, its Reading Rooms and their complete set of technical journals), the Departments of Anatomy, Public Health and Preventive Medicine, the Research Institute of Endocrinology and the Museums of Anatomy, Pathology and Ethnology. The Faculty of Dentistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its dissecting room, with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department. The Laboratories for Histology and Embryology have excellent facilities, with space for 120 students, and smaller rooms for research.

*Suspended for the present session.

THE BIOLOGICAL BUILDING

Completed in 1922 at a cost of over $500,000, this building was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. This extensive structure—184 feet by 60 feet—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

Adjacent to and connected with the Biological Building is the Laboratory for Experimental Surgery. This two-storey building contains two operating units with sterilization and anæsthetic rooms, as well as commodious quarters for the storage of animals and their care during convalescence. The equipment is very complete and includes a refrigerator plant and kitchen.

THE PATHOLOGICAL INSTITUTE

This building, which was opened for use in October, 1924, and which is connected with the Royal Victoria Hospital by a tunnel, is situated on the Northeast corner of University Street and Pine Avenue, adjacent to the Medical Building. It provides accommodation for the departments of Pathology and Bacteriology and includes a Pathological Museum and museum workshops. It combines under one roof, quarters for teaching and research in these departments, both for the University and for the Royal Victoria Hospital. It provides ample facilities and equipment for instruction of students, and the research work of the Staff.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. Unsurpassed in its equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neuro-surgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine. In addition to wards, operating rooms, laboratories, etc., the building provides complete residential accommodation for six research fellows.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building is at present being reconstructed to permit of the establishment of a fifty bed unit, together with extensive research laboratories. Plans have been drawn up for the carrying out of undergraduate and post-graduate teaching in the Faculty of Medicine.

HOSPITALS

Few medical schools on this Continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and topographical conditions exist for the teaching of scientific and practical medicine.

The Medical School is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University, as well as with clinical facilities, is thus made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:—

Royal Victoria Hospital.
Montreal General Hospital.
Children's Memorial Hospital.
Foundling Division, Children's Memorial Hospital.
Alexandra Hospital for Infectious Diseases.
Verdun Protestant Hospital.
Royal Edward Institute.
The Royal Victoria Montreal Maternity Hospital.

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical School. These affiliated hospitals contain over 2,000 beds.

THE ROYAL VICTORIA HOSPITAL, in juxtaposition to the University buildings, is a general hospital for acute diseases and contains 693 beds and 96 cribs. In a typical year, it cared for 16,637 cases, while in its out-door department 68,994 cases were treated. Many new additions have been made in the Hospital. A modern University Medical Clinic was established in 1924.

There were 66.2% post-mortems.

The number of resident physicians is 70.

The Royal Victoria-Montreal Maternity Pavilion, with 214 beds for obstetrical and gynæcological cases, was opened in June, 1926. In this institution there are 117 teaching beds and an organized out-patient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cared for 2,252 confinements in the Hospital and 210 in the Out-patient Service. In the gynæcological section, 1,803 cases were admitted during the year.

There are ten resident physicians.

The Montreal General Hospital, Central and Western Divisions, is a general hospital for the treatment of acute diseases and contains 600 beds. In a recent year there were 12,200 admissions. The number of patients' visits to the Outpatient Department of both Divisions totals 174,977. Many modern additions to the original buildings have been made permitting increased bed capacity. There is a large biochemical laboratory completely equipped for the complete investigation of the metabolic aspects of disease and in conjunction with this department there is an outpatient clinic, one of the largest on the continent, for the treatment of diabetes mellitus. There were 573 autopsies performed which represents 85% of all autopsies obtainable, i.e., other than coroner's cases, etc. Post Mortem and surgical material at both Divisions is now used for teaching, and clinical teaching is carried out in the public wards at both Divisions. The number of resident physicians is 52. The Dental Clinic of the University completed in 1921 is located at the Central Division and has 50 dental chairs with a large and varied clientele. The number of visits to the Dental Clinic for a recent year was 19,065.

The Children's Memorial Hospital has 267 public beds, and, in a typical year, admitted 3,807 patients. The attendance at its out-door department totalled over 32,459 visits. This hospital admits all classes of cases of disease in children, and enables the students to get a broad concept of pædiatrics. Of special interest are the newly-built wards with cubicles, the Department of Remedial Gymnastics, the Open-air Pavilions, and the well-equipped out-patient service.

There were 97 autopsies per year, which represents 88.3% of all deaths.

The number of resident physicians is 12.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

Thet are 172 beds, and, in a typical year, 2,008 patients were admitted to the hospital. There were 14 autopsies.

The number of resident physicians is 3.

THE VERDUN PROTESTANT HOSPITAL has 1,100 beds. It serves to instruct students in the diagnosis and treatment of the psychoses. Students are taken about the wards in groups, and are required to report on cases and discuss the general problems of psychiatry with the teachers. Occupational therapy is emphasized.

THE ROYAL EDWARD INSTITUTE in its new building, 3674 St. Urbain St., has space for 70 beds, with operating room, X-Ray equipment and modern facilities for the examination of patients; it is essentially a dispensary for tuberculosis and offers adequate material for teaching students the essential features of pulmonary disease.

The Royal Victoria Hospital is adjacent to the Medical School, while the other affiliated hospitals are within easy access. These hospitals, with their large clinical and laboratory facilities, and their close affiliation with the University, offer excellent opportunities for the study of disease in all its phases.

LIBRARY

Honorary Librarian.....R. L. STEHLE

The Library occupies the central front section of the medical building. It contains more than 53,000 bound volumes and an extensive collection of pamphlets, theses, government publications and other items.

On the third floor are the pleasant, well-lighted reading room, capable of accommodating seventy-five readers, and the periodical room, the catalogue, the charging desk, and exhibits of library treasures. The second floor contains the book stacks and three study rooms available to members of the teaching staff. The first floor is devoted to the technical operations of the library-ordering, cataloguing, etc.

The chief value of the Library is in its periodical collection. Relatively little in the way of important journal literature in all languages is not available in it. The book collection contains many rare volumes, some dating back to the sixteenth century. Among the books and journals the ophthalmological section, due in large measure to many gifts from the late Dr. Casey A. Wood, is excellent.

The Library is for the use of the members of the Teaching Staff, graduates of the Medical Faculty of the University, undergraduate students in the Faculty, graduates from other medical schools, showing proper credentials, and graduate nurses. Graduates living at a distance may borrow books and journals on payment of carriage both ways.

The Library is closed on Sundays, but is otherwise open daily during the academic session from 9 a.m. to 6 p.m., and 7.30 to 10.00 p.m., except Saturdays, when it is closed at 5 p.m. After June 15th it is open from 9 a.m. to 5 p.m.; Saturdays, 9 a.m. to 1 p.m. During July and August it is closed on Saturdays.

THE OSLER LIBRARY

Librarian.....W. W. FRANCIS

This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises nearly 9,500 volumes, occupies a large room, beautifully equipped, on the third floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works; and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very unusual lines, the catalogue was completed, indexed, and printed after his death ("Bibliotheca Osleriana," Clarendon Press, Oxford, 1929, xxxvi, 785 pp.)

The books are classified in eight sections, of which the first, the "Bibliotheca Prima," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its Incunabula, a valuable collection of 137 books printed in the fifteenth century.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers. The books belonging to the original collection may not be borrowed or removed from the Library, but this restriction does not apply to the current works on the history and biography of medicine and science which are constantly being added.

MEDICAL SOCIETIES

1. THE McGILL UNDERGRADUATE MEDICAL SOCIETY

The Society is composed of the registered students of the Faculty. Its purpose is:—

(1) To transact all matters of business connected with the undergraduate body.

(2) To stimulate interest along medical lines.

(3) To assist students to express themselves in public with facility.

(4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

Meetings are held every alternate Monday, at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

A prize competition has been established in the senior and junior subjects. The senior are open to all to write upon, while only students of the first three years are allowed to compete in junior subjects. The papers are examined by a board selected by the Faculty, and two prizes are awarded in each division. The papers are subject to the call of the Executive on December 1st, and must be handed in for examination before February 1st. The Society also controls the Students' Reading Room. English and American journals, as well as the leading daily newspapers are kept on fille.

2. ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

3. THE OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the Faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

McGILL UNIVERSITY

MONTREAL

FACULTY OF DENTISTRY

1943 - 1944

McGILL UNIVERSITY

FACULTY OF DENTISTRY

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.

Dean of the Faculty of Dentistry..A. L. Walsh, D.D.S., F.A.C.D.

Bursar.....William Bentley, C.G.A.

Registrar.....T. H. Matthews, M.A.

A complete list of the teaching staff of the University, including the Faculty of Dentistry, is printed as a separate announcement, which may be obtained from the Registrar's Office.

ENTRANCE REQUIREMENTS

Every candidate for admission to the First Year in the Faculty of Dentistry must have completed two full years in the Faculty of Arts of a recognized university, including lectures and laboratory work in *Chemistry* (Inorganic and Organic), *Physics* and *Biology*.

In the case of those who intend to practise in the Province of Quebec it is essential that the candidate should:—

(a) take at least the second of the above two years in a recognized English University of this Province, or

(b) hold a Bachelor's degree from any recognized university in Canada, thus qualifying for eligibility to register with the College of Dental Surgeons of this Province in the study of Dentistry.

Courses meeting these requirements are offered in the Faculty of Arts and Science of McGill University, where a student may take the two years of study required, or the second of the two if he has satisfied the requirements of the first by Senior Matriculation, or otherwise.

Particulars of the Junior and Senior Matriculation Examinations are given in the Matriculation Announcement.

COURSES FOR THE DEGREE OF D.D.S.

Acceleration of Course as a War-Time Measure:

At the request of the Federal Government of Canada the dental course will be accelerated as a "war measure", as long as this appears to be necessary, in order that dental students may graduate at an earlier date. It is planned that this will be accomplished by the introduction of summer terms, reducing the normal summer vacation periods to a minimum. Each summer session will accelerate the graduation of the class which takes it by approximately three months. According to this plan a class will be admitted in September of each year. A student entering at this time will complete his lectures and examinations in May three years later. The Department of National Defence has made arrangements to enlist junior and senior Canadian students in Dentistry into the Canadian Army (Active) in conjunction with this scheme for acceleration of the course. Details of this scheme may be obtained on application to the office of the Dean.

PROVINCIAL REGISTRATION

Intending students are reminded that a University degree in Dentistry does not itself give a right to practise the profession of Dentistry. It is necessary to comply with the dental laws of the country, state, or province in which it is proposed to begin practice. Each province in Canada at present has special requirements for its license, and in all of them a certain standard of general education is insisted upon before the study of Dentistry may be begun. *Students who intend practising in Canada are advised to register their qualifications in the province in which they intend to practise, before they begin their university course.*

The following is a list of the Registrars of the Dental Boards of the several Canadian provinces. Students are advised to write for information whenever they are in doubt as to the regulations of any province.

**Ontario*—D. W. Gullett, 211 Huron Street, Toronto, 5.
**Nova Scotia*—G. M. Dewis, 69 Gottingen St., Halifax.
**New Brunswick*—A. J. Caughlan, D.D.S., 75 Charlotte St., Saint John.
**Prince Edward Island*—Heath McIntyre, D.D.S., Charlottetown.
**Manitoba*—J. F. Morrison, D.D.S., 403 Medical Arts Bldg., Winnipeg.
**Alberta*—R. A. Rooney, D.D.S., 523 Tegler Bldg., Edmonton, Alta.
**Saskatchewan*—L. J. D. Faskin, Regina.
Quebec—Dr. Denis Forest, 3632 Park Ave., Montreal.
British Columbia—W. J. Lea, 1320 Medical Dental Building, Vancouver.
Newfoundland—A. B. Kennedy, Water St., St. John's.

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*Members of the Dominion Dental Council.

DOMINION DENTAL COUNCIL OF CANADA

Seven of the nine Canadian provinces (*i.e.*, all but Quebec and British Columbia) have entered into an agreement whereby the holder of a certificate granted by the Dominion Dental Council may practise in any of the subscribing provinces. In order to obtain this certificate a candidate must: (1) hold a matriculation certificate of the proper standard; (2) be a graduate of a Dental College within the agreeing Provinces or take the Class D. Examination after five years practising in an agreeing Province; (3) pass the examination set by the council, and (4) pay the local and provincial registration fee.

The Secretary of the Dominion Dental Council is Dr. A. J. Brett, Regina, Sask.

REGISTRATION

Students in First and Second Years Dentistry register at the Registrar's Office on Tuesday, Sept. 8th. Students in the Third and Fourth Years register at the Registrar's Office on Monday, September 14th and Tuesday, September 15th. First and Second Year students registering after September 8th and Third and Fourth Year students registering after September 15th are required to pay a late fee. No students are admitted after the 8th of October.

FEES

Tuition Fees

1. Annual undergraduate fee for British* students..... $325.00
   By instalments: Each of two instalments..... 165.00
   Annual undergraduate fee for Non-British* students..... 365.00
   By instalments: Each of two instalments..... 185.00
2. Students repeating the course of study of the first and second years are required to pay half the tuition fee. Students repeating the third and fourth years will pay a hospital fee of twenty-five dollars in addition to half the tuition fee.
3. Qualified partial students are admitted to one or more courses on payment of special fees. For further particulars consult the Dean's Office.
4. A Dental Cabinet may be rented during the academic year for a fee of $10.
5. A Microscope may be rented during the academic year for a fee of $5.70.
6. In Second Year—Crown and Bridge Model..... $30.00

*Domicile will in general determine whether a student pays the British or the Non-British fees. A student who is uncertain which rate he will be required to pay should consult the Registrar.

GENERAL REGULATIONS

7. Fees are due and payable at the Bursar's Office between the hours of 9 a.m. to 1 p.m. and 2.30 to 4.30 p.m., on the following dates: First and Second Years, September 8th and 9th; Third and Fourth Years, September 14th and 15th; but they may be paid before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2 is charged for payment after the specified dates.
8. Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 7.
9. Immediately after the prescribed dates for the payment of fees, the Bursar sends to the Dean of each Faculty, a list of the registered students who have not paid their fees. The Deans thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

NOTE: Special fees are given in the General Information Pamphlet included in this Announcement.

INSTRUMENTS

With the exception of extracting instruments, lathes, and vulcanizers, each student is required to furnish his own instruments and appliances for both laboratory and operating room, and is not permitted to enter the Course until he is thus supplied.

The approximate cost of instruments and supplies for the First and Second Years, which includes an Anatomical Articulator, an Engine and a Crown and Bridge Model, is $350.00.

Third Year approximate cost	$100.00
Fourth Year approximate cost	75.00

All of these instruments and this equipment will be required for office use when the student enters practice and should be regarded as an investment for that purpose rather than a university expense.

Arrangements have been made with local Dental Supply Houses in order that the student may benefit by a special trade discount.

MEDALS AND PRIZES

The Montreal Dental Club Gold Medal, and a prize in books.—Awarded to the student in the Final Year who stands first in the science and practice of Dentistry. The standing is determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the year.

The College of Dental Surgeons of the Province of Quebec.—A prize of twenty-five dollars awarded to the student, registered in this Province, obtaining the highest standing in the practical examinations of the Final Year.

The Lieutenant-Governor's Silver Medal, and a prize in books.—Awarded to the student in the Final Year who stands second in the class. The standing is determined in a manner similar to that followed in the awarding of the Gold Medal.

Third Year Prize in Books.—Awarded to the student obtaining the highest marks in wirtten and practical subjects in the Third Year examinations.

The following prizes are given by the Mount Royal Dental Society:

First and Second Year Prizes.—A prize in books awarded to the student obtaining the highest standing at the sessional examinations.

SCHOLARSHIPS, BURSARIES, AND LOANS

Details of University and other scholarships and bursaries are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

The University has a small loan fund from which loans may be made to students of good academic standing. Loans are made only to students in the upper years. Applications for loans should, in the first place, be made to the Dean.

COURSE FOR THE DEGREE OF D.D.S.

Candidates for the degree of D.D.S. must complete two years of study in a College or Faculty of Arts, with Physics, Inorganic and Organic Chemistry and Biology as compulsory subjects, before entering upon the four-year course in this Faculty. The curriculum is as follows:—

First Year

Anatomy (human)
Dental Anatomy
Histology, Medical and Dental
Physiology
Biological Chemistry
Prosthetic Technique
Crown and Bridge Technique
Operative Technique
Orientation in Dentistry

Second Year

Crown and Bridge Work
Operative Technique
Orthodontia
Prosthetic Technique
Bacteriology
Pharmacology (general and dental)
General Pathology
Technical Composition in Dentistry
Dental History
Dental Ethics
Dental Jurisprudence
Materials used in Dentistry
Metallurgy

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*It should be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a student's course, to the conditions here laid down.

THIRD YEAR

Crown and Bridge Work
Dental Therapeutics
Operative Dentistry
Orthodontia
Prosthetic Dentistry
Dental Radiography
Prosthetic Articulation
General Anaesthesia
Oral Surgery
Local Anaesthesia
Oral Pathology
Root Canal Therapy
Social and Economic Relations of Dentistry

FOURTH YEAR

Orthodontia
Prosthetic Dentistry
Oral Surgery
Crown and Bridge Work
Medicine
Dental Office Management
Periodontia and Oral Hygiene

EXAMINATIONS

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

A minimum of 50 per cent in each subject is required to pass, and 75 per cent for honours.

All examinations in each year must be passed before a student is allowed to advance to the next.

Candidates who fail at the regular examinations in not more than three subjects of the First, Second or Third Years, may, at the discretion of the Faculty, be allowed to take the supplementary examinations before the beginning of the following session. These examinations are held during the week preceding the regular opening of the session.

Failure in more than three subjects of the First, Second or Third Years at the regular examination excludes the candidate from advancement.

Students who fail in one subject only of the Final Year may, at the discretion of the Faculty, be allowed a supplementary examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional clinical attendance or laboratory work before presenting himself for examination.

Applications for supplemental examinations must be in the hands of the Dean, at least three days before the date set for the beginning of the examination, and must be accompanied fy a fee of $10.00 for each subject.

QUALIFICATIONS FOR THE DEGREE

1. No one is admitted to the degree of Doctor of Dental Surgery who has not attended lectures for a period of four sessions in the Dental Faculty of this University, or partly in this University and partly in some other approved university, college or school of dentistry.

2. Students of other universities, so approved, who may be admitted on production of certificates to a like standing in this University, are required to pass an oral examination in primary subjects, and all examinations in the final subjects in the same manner as students of this University.

No one is permitted to become a candidate for the degree who has not attended at least one full session at this University.

3. Candidates for the final examination must furnish testimonials of attendance on the branches of dental education mentioned on page 564; provided, however, that testimonials equivalent to, though not precisely the same as these, may be presented and accepted.

COURSES OF LECTURES

ANATOMY

Robert Reford Professor of Anatomy...C. P. MARTIN
Assistant Professor of Anatomy.....
Associate Professor of Histology.....H. SELYE
Lecturer in Histology.....C. P. LEBLOND
Senior Demonstrator in Anatomy.....D. S. FORSTER
Demonstrators.....{W. WALFORD*
E. W. WORKMAN

ANATOMY

1A. GROSS ANATOMY.

This course covers the first two terms of the first year, and is planned so that after making a general survey of the whole body, the dental student concentrates his attention on the head and neck. The course runs concurrently with the course in First Year Medicine (Anatomy 1), and comprises five hours lectures and fifteen hours laboratory work a week during the Autumn and Winter terms.

MICROSCOPIC ANATOMY

1. HISTOLOGY AND EMBRYOLOGY.

This course coincides for the main part with the Medical Microscopic Anatomy Cource 5 but the reproductive organs are excluded and special lectures on dental histology and the embryology of the mouth are included. The course finishes at the end of the Winter term.

Laboratory Manual:—Grant's A Method of Anatomy.

Anatomy Text-book:—Gray, Anatomy, or Cunningham, Text-book of Anatomy.

Histology Text-book:—Bailey, Textbook of Histology, or Maximow and Bloom, Histology.

*Captain in War Service.

BACTERIOLOGY

Professor.....E. G. D. Murray
Associate Professor.....Frederick Smith
Assistant Professor.....T. E. Roy*
Lecturers.....C. D. Kelly, W. H. Mathews*, C. R. Brewer
Demonstrators.....D. S. Fleming, D. H. Starkey*, N. W. McLellan*, G. G. Kalz

All lectures and laboratory courses are given in the Department of Bacteriology (Institute of Pathology).

Elementary Medical Bacteriology and Immunity

30 lectures and 63 hours Practical Work. Third term.—Available to Students of Dentistry on the completion of their studies in Anatomy, Physiology, Histology and Biological Chemistry.

A choice of one of the following books is recommended:—

T. J. Mackie & J. E. McCartney, Practical Bacteriology (Livingstone); Jordan & Burrows, Textbook of Bacteriology (Saunders), or others listed in the Announcements of the Faculties of Arts and Science, and Medicine.

PATHOLOGY

Professor.....G. Lyman Duff
Lecturer.....F. W. Wiglesworth*
Demonstrators.....E. S. Ingraham, H. D. Chipps

Required Courses

1. Course in General Pathology.

A. Two lectures per week (with epidiascopic and microscopic demonstrations) during the Winter and Spring terms. (52 lectures).
Professor Duff.

B. Two practical laboratory classes per week during the Spring Term. (80 hours practical work). Professor Duff,
Dr. Wiglesworth and Demonstrators.

PHARMACOLOGY

Professor.....R. L. Stehle
Assistant Professor.....K. I. Melville
Lecturer.....A. M. Fraser

*On Military Service.

A course of ten lectures concerned with those phases of pharmacology which are of importance in dentistry, supplemented by five laboratory periods of demonstrations.

Text-books:—Cushny's, Sollman's or any other standard text.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

Assoc. Professor.....R. St. J. MacDonald

A special course of eight lectures on the relations of Dentistry with Public Health and Preventive Medicine.

MEDICINE

(Including General Medicine, Nutrition, Dermatology, Allergic Diseases and Paediatrics).

Professor of Medicine.....E. S. Mills
Professor of Paediatrics.....R. R. Struyhers
Professor of Bacteriology.....E. G. D. Murray
Professor of Biochemistry.....D. L. Thomson
Clinical Professor.....J. F. Burgess
Demonstrator in Medicine.....H. E. MacDermot

This course is designed to give the dental student a general insight into medical conditions which are influenced, either directly or indirectly by dental problems, as well as general diseases and other pathological processes which influence dentition and the condition of the teeth and gums.

The course consists of twenty-six clinical lectures at which, as far as possible, suitable clinical material is presented to illustrate the various abnormal processes. It is not attempted to give the dental student the impression that he is getting a complete course in Medicine but rather to impress upon him when and how he can be of assistance to the individual in regard to general medical problems and, where the latter also requires his aid, in solving many problems.

Particular attention is paid to:—

(1) Infectious and systemic diseases which may affect the mouth, have manifestations in the mouth, or where the condition of the mouth is important in the general course of the disease;

(2) The importance of diet and nutrition upon the general welfare of man, including food requirements, chemistry of nutrition, calorimetry, metabolism, the ductless glands and their influence on nutrition, etc.

(3) The local manifestations of diseases of the skin as seen in the mouth and mucous membranes;

(4) The importance of proper dentition in the child, with particular emphasis being placed upon vitamins and congenital deficiencies.

BIOCHEMISTRY

Professor.....D. L. THOMSON
Lecturer.....O. F. DENSTEDT

This course is taken with the Medical Students.

REQUIRED COURSES

1. BIOCHEMISTRY—LECTURE COURSE:

Text-books:—Bodansky, Introduction to Physiological Chemistry (Wiley); Cameron, A Text book of Biochemistry (Macmillan); Williams, Text-book of Biochemistry (Van Nostrand).

Monday, Wednesday and Friday at 9, during the Autumn and Winter terms.

2. BIOCHEMISTRY—LABORATORY COURSE:

A synopsis of the course is issued by the Department.

Six hours a week: Monday morning; Thursday afternoon.

DENTAL PATHOLOGY

Demonstrator.....A. GERALD RACEY

This course in Pathology is given in the Third Year.

It includes a study of the developmental defects and malformations of the teeth and special consideration is given to the study of the etiology, diagnosis and pathology of Dental Caries; Diseases of the dental pulp; Periapical diseases; Periodontal diseases; Odontogenic cysts; and tumours which commonly occur in the oral cavity.

A study is also made of the oral manifestations of certain of the infective granulomata, as well as vitamin deficiencies and endocrine disturbances.

In the laboratory microscopic slides of many of these conditions are studied.

The course extends over the entire session, one hour per week during the first half year, and two hours per week during the second half.

Text-books:—Thoma: "Oral Diagnosis and Treatment Planning"; Kronfeld: "Histopathology of the Teeth and Their Surrounding Structures"; Thoma: "Clinical Pathology of the Jaws"; Bunting: "Oral Pathology".

PHYSIOLOGY

The Morley Drake Professor of Physiology.
Research Professor of Physiology and Chairman of the Department.....HEBBEL E. HOFF
Assistant Professor.....N. GIBLIN
Lecturers.....S. DWORKIN, D. A. ROSS, S. A. KOMAROV
Demonstrator.....RHODA GRANT

The purpose of this course is to give the student an elementary knowledge of the whole subject of physiology with a more special knowledge of such aspects of the subject as bear more particularly on the practice of dentistry.

Text-books:—Howell, Textbook of Physiology (14th ed.);
Schafer, Experimental Physiology (6th ed. by Bain).

SURGERY

Professor.....C. K. P. HENRY

The course includes clinical and didactic lectures. The patients in the medical and surgical services of The Montreal General Hospital, both indoor and outpatients are available for teaching. In addition students attend in groups at the Tumor Clinic where a large series of malignant conditions are demonstrated. Clinical lectures are given in the operating theatres, and ward rounds are conducted in the wards where all mouth conditions of interest to dental students are shown. Use is made of lantern slides, gross and microscopic specimens of tissues of operated cases are demonstrated and each student receives mimeographed synopses of the surgical clinics. The students are encouraged to attend operations on mouth diseases and injuries, performed by the teachers doing oral surgery as well as dental surgery. All forms of anaesthesia are demonstrated.

The Dental Clinic, established in The Montreal General Hospital over 28 years ago, treats over twenty thousand patients yearly and also supplies the necessary dental treatment for patients resident in the hospital.

Text-books:—Surgery of Oral and Facial Diseases and Malformations—by George Van Ingen Brown, 4th Edition, 1938, (Lea & Fegiger); Cancer of the Face and Mouth—Blair, Moore, Byers, Blair and Ivy—Oral Surgery; Weston Prices—Dental Infections, Oral and Systemic, 2 vols; Clinical Pathology of the Jaws—Kurt H. Thoma from the Laboratory of Oral Pathology of the Harvard Dental School.

CLINICAL INSTRUCTION

Clinical instruction is given in the Operating Theatre and Out-Patient Department and in the Dental Clinic of the Montreal General Hospital. Abundant opportunity is afforded in this institution for the study of diseased conditions of the mouth and jaws, and for watching operations in these regions.

DENTAL SURGERY

Professor of Dental Surgery.....A. L. WALSH
Lecturer.....J. W. GERRIE
Demonstrators.....R. E. McMAHON*, F. W. SAUNDERS*

Thirty lectures are given to the Junior Students in the above subject, which includes exodontia, cysts, fractures, and benign tumours, alveolectomy and apicœctomy and local anaesthesia. The Seniors are given clinics on practical cases and are required to complete one case during the year in any of the above, excepting exodontia.

GENERAL ANAESTHESIA

Lecturer.....C. C. STEWART

This course, given in the Third Year, comprises a short series of lectures on the general principles and the physiology of anaesthesia, with special emphasis laid on the factors of safety and the suitability of the anaesthetic agent employed. An equal amount of time is spent in the main operating theatre where demonstrations are given of the use of all modern methods of general anaesthesia for dental and oral surgery under actual working conditions.

Text-book:—A. E. Guedel, "Inhalation Anaesthesia" (Macmillan).

DENTAL PHARMACOLOGY AND THERAPEUTICS

Demonstrator.....M. REUTCKY

This course is divided into two parts:

1. Given to second year students comprises the study of the physical properties, chemical composition and physiological action of the various medicinal substances and drugs used in the treatment of diseased conditions of the dental organs and related system.

2. Given to third year student treats the providing doses, antidotes, and contra-indications of the drugs previously studied together with physical and thermal methods that are of use in dealing with morbid conditions of the oral cavity. Special emphasis is paid to the remedies advocated in other courses and in use in the teaching Clinic.

Text-books: Prinz: Dental Materia Medica & Therapeutics, Cipes. Prescription writing for Dentists. Accepted Dental Remedies.

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*On Military Service.

DENTAL HISTORY, ETHICS AND OFFICE MANAGEMENT

Lecturers.....{EARL M. LAURIN
J. NEILSON BLACKLOCK

HISTORY:—

This course is intended to give the student an intellignet conception of the evolution and development of dentistry from the primitive conditions and methods of the past to the present standing of the profession as a branch of the healing art. The relation of some of the outstanding men of the profession to this development will also be dealt with.

ETHICS:—

Under this head the moral, social and business relationships between the dentist and his patient will be discussed, as well as his duty to the public, his fellow practitioner, and himself

OFFICE MANAGEMENT:—

Under this head the business of the dentist's life will be considered. The question of office equipment, keeping of appointments, overhead charges, methods of determining fees, office assistants, etc., will be taken up.

DENTAL JURISPRUDENCE

Professor.....F. R. SCOTT

A discussion of the laws governing the practice of Dentistry, their necessity and purpose.

The responsibility of the dentist under the laws of the Province, his position as defendant in suits for damages and as plaintiff in suits for fees, are fully explained.

METALLURGY

Associate Professor....GORDON ST. GEORGE SPROULE

This course is given to Dental students of the Second Year by the Metallurgical Department of the University.

It consists of twelve lectures of one hour, and twelve laboratory periods of two and a half hours each.

The lecture course covers:—

(1) Introductory lectures on the physical and chemical properties of metals, especially in relation to their use in dentistry.

(2) Methods of melting, casting and alloying metals in the laboratory.

(3) Methods of extracting metals from their ores.

(4) The nature and preparation of alloys, including amalgams.

(5) The metals used in dentistry (lead, zinc, tin, bismuth, cadmium, antimony, aluminum, copper, silver, gold, platinum, iridium, mercury, iron and steel) are considered separately in regard to their properties, uses in dentistry, and, as far as time allows, extraction from their ores. The separation, purification and alloying of gold, silver and platinum are specially considered.

(6) The manufacture, properties and uses of dental amalgams.

Text-book:—J. D. Hodgen, Practical Dental Metallurgy.

The laboratory course includes experimental work with the metals; gold, silver, copper, lead, zinc, tin, aluminum, nickel, iron and steel.

The metals are melted, alloyed, cast, hammered, filed, cut, rolled, annealed and tested with acids and other chemicals.

The preparation of pure gold and silver is carried out and the production and testing of dental and other amalgams.

The course is given during the first term of each session by Professor Sproule.

DENTAL ANATOMY

Demonstrator . . . . . R. B. Bell

This course, given in connection with general anatomy in the First Year, aims at giving the student a thorough knowledge of the size, shape, uses, and general construction of the natural teeth, their articulation and composition.

This is accomplished by lectures and demonstrations, with the use of drawings, models and lantern slides.

The student is required to carve in plaster four teeth three times natural size and fourteen teeth natural size representing all the forms in the human mouth, which are then articulated anatomically.

Different sections of extracted teeth are made to familiarize the student with the relationship of the different structures composing the teeth.

The total time given this subject during the First Year is five hours a week for a period of twenty-six weeks, total of one hundred and ten hours, divided as follows:—one hour a week devoted to lectures, twenty-six hours; the balance to demonstrating, modelling, carving, making sections, etc., one hundred and four hours.

Text-book:—G. V. Black and M. Diamond (Macmillan).

OPERATIVE DENTISTRY

Professor.....

Associate Professor.....D. Prescott Mowry

Assistant Professor.....W. G. Leahy

Demonstrators.....
- H. V. Driver*
- F. A. Edward*
- L. F. McRae*
- C. H. P. Moore
- P. H. Rowe
- C. R. Seller
- S. S. Smaill*
- Wm. G. Stockwell
- E. T. Cleveland*
- J. E. Vanvliet*
- A. W. Adams
- J. W. Morton
- Ross, T. Murray

The purpose of this course is to make the students thoroughly familiar with all modern and accepted methods. The course of lectures extends over two years and a half, and includes discussion of the treatment of caries: the preparation of cavities, the materials used for filling, the most approved instruments and appliances used in operating upon the teeth. Clinics will be held at the Dental Clinic, where ample material is provided and every available means used to make the student practically conversant with all the up-to-date knowledge of this important branch of dental science.

In conjunction with this course, operative technics is taken up, which provides a systematic course in manual training, thoroughly familiarizing the student with the anatomy of the teeth, and the shaping of cavities, from the simple to the more complex. This is carried out on models, using the different regular filling materials, scaling, bleaching, and, so far as possible, all of the operative procedures.

The Dental Clinic is open throughout the whole year, and students are advised to give as long a time to this work as possible. Each student must provide himself with the instruments necessary for his own use. The School arranges that a kit of instruments is ready at the commencement of the First and Second years for each student. Hr is required to perform all the usual dental operations as they present themselves, under the supervision of competent demonstrators, who are always at hand to offer advice and assistance under the direction of the Professor. Between the Second and Third Years, and also between the Third and Fourth Years, students are required to spend six weeks doing practical work in the Hospital Clinic.

Text-books:—G. V. Black, 2 Vols. (Medico-Dental Co., Chicago); C. N. Johnson (Blakiston); M. E. Jordan, Dental Items of Interest; W. H. O. McGehee, Text-book of Operative Dentistry (Blakiston).

Reference for Periodontia:—Stilman & McCall, Clinical Periodontia (Macmillan, New York).

*On Military Service.

PERIODONTIA.

Arrangement is made for co-ordination of the theoretical study, practical instruction and clinical practice in the treatment of pathological conditions to be found in the peridental tissues. The physiological and histological structure in relation to function, is made a basis for the study and treatment of the peridental tissues.

Text-books:—Orban, Dental Histology and Embryology; Kronfeld, Histopathology of the Teeth and Their Surrounding Structures.

ORTHODONTIA

Professor.....A. W. McCLELLAND
Lecturer.....GERALD FRANKLIN*
Demonstrators.....M. L. DONIGAN, A. R. WINN

The course in this branch of Dentistry commences with the study of the embryology of the dental organs, covering growth, development and eruption of the teeth.

Orthodontia is taught in three full years of the dental course.

The work of the second year is chosen with a view to giving the student a thorough course in technique. Here, different kinds of free-hand soldering are taught, together with the making of simple appliances; the taking of impressions and the making of plaster models is also taken up in this year.

The third year's work may be divided up into three parts, Practical, Theoretical and Clinical. Advanced appliance technique, plaster work, etc., comprises the practical work of this year.

Ten lectures are given, covering terminology, occlusion and classification, which is deemed sufficient to enable the student to enter on the more difficult theoretical problems of his final year.

Following the lectures, group chair-clinics are given, when patients are examined, simple cases diagnosed, etc.

The third year student is associated with a student of the final year, who is carrying on cases under treatment in the clinic at the Montreal General Hospital. The third year student does not take part in the active treatment, however.

In the fourth or final year a course of advanced lectures is given. These lectures cover Etiology, diagnoses and preventive orthodontia.

Clinical cases are assigned to each student which he treats under strict supervision.

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*On Military Service.

He is called upon to make appliances suitable to the case at hand. Such appliances are designed by the staff and are constructed of precious metals.

Together with the student being responsible for the treatment of the cases assigned him, he must familiarize himself with all other cases under treatment.

Histology is reviewed, paying special attention to the changes that take place in the bone tissue incident to tooth movement.

In the laboratory, slides which are specially selected are microscopically examined.

Text-books recommended are:—Dewey, Brash, Angle, McCoy.

PROSTHETIC DENTISTRY

Professor	J. S. DOHAN
Assistant Professors	W. C. BUSHELL I. K. LOWRY
Demonstrators	R. E. DAGG P. R. MARCHAND WILLIAM G. STOCKWELL E. R. WARD
Special Lecturers	J. C. FLANAGAN E. T. BOURKE (on active service)

This course covers the teaching of mouth reconstruction in its fullest sense. It includes the examination, diagnosis and treatment of cases, the preparation of the mouth and teeth, impressions, the technique of constructing various types of crowns, fixed and removable partial dentures, full dentures, and the construction of appliances for the treatment of cleft palate cases.

For convenience in teaching, the course is divided into four parts, namely: Full Dentures, Removable Partial Dentures, Fixed Partial Dentures, Crowns and Ceramics. The course extends throughout the four years. During the first two years students are given a thorough training in the various techniques on models, etc. The final two years are clinical years and are devoted to lectures at the University, and practical work at the Montreal General Hospital. During these years students are required to complete a certain number of the various restorations in the mouths of patients under the supervision of demonstrators.

Text-books:—Partial Dentures by Edward Kennedy (Dental Items of Interest). Partial Dentures by F. G. Neurohr, (Lea & Febiger); Complete Denture Prosthesis by Schlosse (Saunders), Gillet & Irving, Inlays by the Indirect System (Dental Items of Interest); Schwartz, Cavity Preparation (Dental Items of Interest); Le Gro Ceramics in Dentistry (Dental Items of Interest); Felcher, Art of Porcelain in Dentistry.

CLINIC

Students are required to attend the clinic every day during the Third and Fourth Years from nine to twelve o'clock and from one-thirty to five o'clock, except during such part of the time as may be taken up with lectures or other work of the University course. The practical dental work is supervised by the Director of the clinic and his associates. Anaesthetics are administered by members of the resident staff of the Hospital, who give practical instruction in this most important branch. A nurse is also in attendance during clinic hours.

LIBRARY

In conjunction with the Medical Library, which contains all the standard text-books in the branches of the first two years in Dentistry, there is a section dealing exclusively with dental subjects. Students may consult any work of reference in the Library between 9 a.m. and 9 p.m. during the session; Saturdays, 9 a.m. to 5 p.m.

MUSEUM

In connection with the Pathological Museum of the Medical Faculty there is a very good collection of plaster casts of deformities of the jaw, etc., and also a very large collection of teeth of all varieties.

McGILL UNIVERSITY

MONTREAL

FACULTY OF LAW

1943 - 1944

McGILL UNIVERSITY

FACULTY OF LAW

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.

Dean of the Faculty of Law.....Charles Stuart LeMesurier, K.C., B.A., B.C.L.

Bursar.....William Bentley, C.G.A.

Registrar.....T. H. Matthews, M.A.

Secretary of the Faculty of Law...John P. Humphrey, B.Com., B.A., B.C.L.

A complete list of the teaching staff of the University, including the Faculty of Law, is printed as a separate announcement which may be obtained from the Registrar's Office.

GENERAL INFORMATION

COURSE OF STUDY

The Faculty offers a three-year course, preparing students for admission to the legal professions in Quebec and for public service and business. In the field of private law, the course is based mainly on the Roman and Civil systems. The curriculum has recently been revised and now provides students with better opportunities to study the broader purposes of government and to acquire skills in the management of the new institutions and procedures resulting from the increased role of government in the economic and social life of the nation.

ADMISSION

Students who have successfully completed two years in the Faculty of Arts and Science at McGill University will be admitted to the Faculty of Law without further examination. Other candidates for admission will have to satisfy the Faculty that they have attained an equivalent educational standard, and are intellectually qualified to pursue with advantage the study of law.

Students whose right to enter the Third Year of the Arts and Science Faculty is conditional upon their passing supplemental examinations are not eligible for admission to the Faculty of Law.

Women are admitted to the Faculty on the same terms as men, and are eligible for the degree. As the law stands at present, however, they cannot be admitted to the notarial profession in the Province of Quebec.

The Faculty may admit a limited number of suitable persons to attend selected courses of lectures without matriculation in the University. Such permission will only be granted to applicants who satisfy the Faculty of their capacity to undertake with advantage the study of law. They will not be allowed to proceed to a degree, but will be entitled to receive a certificate specifying the course of study which they have successfully pursued and the class which they have obtained in the examination.

Candidates for admission are required to interview the Dean or the Secretary of the Faculty and to obtain permission to register.

Students inteningn to practise as lawyers or notaries in the Province of Quebec are referred to the information on page 612 regarding admission to the legal professions.

FRENCH

The attention of students is directed to the necessity of being able to read French easily, as many of the works to which they will be referred are in that language.

REGISTRATION

All students must register in person at the office of the University Registrar between Wednesday, September 22nd, and Wednesday, September 29th. First Year students who wish to consult the Dean personally with regard to their course should register not later than Monday, September 27th.

Students registering later than the prescribed dates will be required to pay a late registration fee of $5 during the first week of the session and $10 during the second. This will not be refunded, except by special permission of the Faculty.

Students must bring with them at the time of registration the evidence necessary to show that they are entitled to admission into the Faculty, if this has not already been furnished.

Fees.

The regular fees and special fees are given in the General Information Pamphlet included with this Announcement.

DATES FOR PAYMENT.

Fees are due and payable at the Bursar's Office between Wednesday, September 22nd, and Wednesday, September 29th, but they may be paid before these dates. The second instalment is due and payable on February 1st. An additional $2 is charged for payment after the specified dates.

Students registering late must pay their fees when they register, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees a list of the registered students who have not paid their fees is sent to the Dean of the Faculty, who removes their names from the register of attendance. Such students are not readmitted to any class until instructions have been received from the Bursar that the fees have been paid.

PRIZES, SCHOLARSHIPS, AND MEDALS

The "Elizabeth Torrance Gold Medal," founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

The Montreal Bar Association offers a prize of $50 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association a prize of $15 to the student who obtains the best marks in Civil Procedure in the Final Year.

The "Alexander Morris Exhibition," of the value of $50, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

The "Robert Alfred Ernest Greenshields Prize in Criminal Law," founded in 1943 by Mrs. Greenshields in memory of her husband, the late Chief Justice Greenshields, D.C.L., LL.D., for many years Professor of Criminal Law and Dean of the Law Faculty. The prize will be awarded to the member of the graduating class having the highest standing in Criminal Law throughout the college course.

The Adolphe Mailhiot Prize, established by Mr. and Mrs. J. N. Mailhiot of Victoriaville, P.Q., in 1927, consists of a prize of law books to be given annually to a student selected by the Faculty, usually, but not necessarily, in the graduating class.

The "Macdonald Travelling Scholarship" was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testaror "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language". The

value of the scholarship is approximately $900. The scholar elected is required to pursue a year's study in the Law Faculty of a French University approved, in each case, by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class, not being a notarial student, who has obtained first or second class honours in the Final Examination, and who would be unable without such financial help to spend a year in France. The Faculty interprets the will of the late Sir William Macdonald as intending that the Scholarship be awarded only to men students preparing for practice as advocates in the Province of Quebec. This scholarship will not be awarded until further notice.

The "Edwin Botsford Busteed Scholarship" was founded by the will of the late Mrs. Edwin Botsford Busteed in memory of her husband, Edwin Botsford Busteed, K.C., B.A., B.C.L., and will be awarded to a student, chosen by the Faculty, in the graduating year who desires to carry out research after graduation on some subject connected with the law of Quebec and approved by the Faculty. The value of the scholarship is approximately $240, which will be paid to the scholar when his thesis has been accepted by the Faculty.

The "Thomas Alexander Rowat Scholarship" was founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. The value of the scholarship is approximately $75. It is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon or Celtic origin. The next award of this scholarship will be in the session 1943-44.

The "Charles Albert Nutting Prize" was founded in 1930 by Miss Adelaide Nutting, M.A., R.N., in memory of her brother, Charles Albert Nutting, K.C., B.C.L., who graduated from this Faculty in 1872. The value of the prize is approximately $40. It is awarded to the student in the first or second year submitting the best essay on a topic related to legal history, the topic to be fixed in advance by the Faculty.

Students in the Faculty are eligible for University Scholarships. For particulars see the Scholarshjps Announcement,

No medals, prizes or scholarships will be awarded, if, in the opinion of the Faculty, there is no candidate of sufficient merit.

SCHOLARSHIPS ANNOUNCEMENT

A complete list of scholarships and bursaries and the regulations governing the various loan funds are given in the Announcement of Scholarships, Bursaries, and Loan Funds which may be obtained from the Registrar's Office.

DEGREES

B.C.L.

The degree granted in the Faculty is that of Bachelor of Civil Law. The course covers three years.

No student under the age of 21 years will be eligible for a degree.

M.C.L.

The degree of Master of Civil Law is granted under the authority of the Faculty of Graduate Studies and Research for advanced study in legal subjects. The candidate must have the degree of B.C.L. from McGill or its equivalent, and must have obtained at least second class honours in the subject which he proposes to study and in the course as a whole. He must spend at least one year in resident study and present a thesis on some topic connected with his subject. The complete regulations governing this degree are given in the Announcement of the Faculty of Graduate Studies and Research.

D.C.L.

The degree of Doctor of Civil Law is granted under the authority of the Faculty of Graduate Studies and Research. The regulations governing this degree are given in the Announcement of that Faculty.

LIBRARY

The Law Library of the University at present contains over 14,000 volumes, and immediately adjoins the lecture rooms. The principal reports of Canada, the United Kingdom, and France are included, as well as a selection of reports from the United States and elsewhere.

There is a small lending library, from which students can obtain text-books for the session on payment of an *ad valorem* fee.

The general Library of the University is also available for the use of Law students.

EXAMINATIONS

Examinations will be held:—

(a) At the end of the first session, covering the year's work, the final examination in Roman Law, International Law and Accountancy being held at this time.

(b) At the end of the second session, covering the second year's work, the final examination in Constitutional Law and Criminal Law and Procedure being held at this time.

(c) At the end of the course, on the work of the three years, except Roman Law, Constitutional Law, International Law, Criminal Law, and Accountancy. The results obtained in the final examinations in these subjects are included in the Third Year total.

Special tests may be required by the Faculty at any time.

At all examinations in the Faculty students are at liberty to write their answers either in English or in French.

CLASSIFICATION OF MARKS

Class I	80–100%
Class II	70– 79%
Class III	50– 69%

In order to pass a student must have an average of 60%.

SUPPLEMENTAL EXAMINATIONS

(a) Students are not, in principle, allowed the privilege of writing supplemental examinations except in the case of illness and other analogous cases. In the first year, however, one supplemental examination may be allowed, provided the candidate had an aggregate of sixty percent in the regular examinations, if, in the opinion of Faculty, the candidate can proceed to the second year with advantage.

(b) All applications for supplemental examinations must be made to the Dean in writing and must reach his office before September 1st.

(c) The prescribed fees must accompany the written application and are payable to McGill University. Fees for supplemental examinations will be ten dollars for each paper, with a maximum charge of thirty-five dollars. If the third year essay is not accepted, in addition to the foregoing, a charge of ten dollars for reading the revised essay will be made.

GRADUATING ESSAY

In addition to passing examinations students must submit, not later than the 31st of January of their graduating year, a thesis of from five to ten thousand words on a subject set by the Faculty. Although no marks are assigned to the thesis, no degree will be granted unless it is adjudged satisfactory. It will be taken into account in awarding honours and prizes of a general nature, such as the Elizabeth Torrance Gold Medal and the Macdonald Travelling Scholarship, and in deciding upon doubtful cases.

CURRICULUM

FIRST YEAR

Roman Law

Three hours throughout the session — Professor J. P. Humphrey.

Civil Law

(a) Persons and Property.
Two hours throughout the session. — Professor C. S. Le Mesurier.

(b) Obligations.
Two hours throughout the session. — Professor F. R. Scott.

Criminal Law and Procedure

Two hours throughout the session. — Professor C. S. Le Mesurier.

International Law and Organization

Two hours throughout the session. — Professor J. P. Humphrey.

Constitutional Law

One hour throughout the session. — Professor F. R. Scott.

Introduction to Public Law

One hour throughout the session. — Professor J. P. Humphrey.

Accountancy

Arrangements to be announced.

SECOND YEAR

Roman Law

Arrangements to be announced. — Professor J. P. Humphrey.

Civil Law

(a) Sale, Lease and Hire, Mandate, Partnership, and minor contracts.
One hour, first term.
Two hours, second term. — Mr. George Owen.

(b) Marriage Covenants, Successions, Gifts, Wills, Substitutions, and Trusts.
Two hours, first term.
One hour, second term. — Mr. Chateauguay Perrault.

(c) Privileges, Hypothecs, Registration, and Prescription.
Two hours, first term. — Professor C. S. Le Mesurier.
One hour, second term.

(d) Legal History.
One hour, second term. — Professor F. R. Scott.

Civil Procedure

Two hours, first term. Professor O. S. Tyndale.
Two hours, second term. Mr. W. F. Macklaier.

Constitutional Law

Two hours throughout the session. Professor F. R. Scott.

*(1) Criminal Procedure and Evidence

Two hours, first term.
One hour, second term. Mr. Gerald Fauteux.

THIRD YEAR

Commercial and Maritime Law

(a) Company Law and Bankruptcy.
One hour throughout the session. Professor A. S. Bruneau.

(b) Introduction to the Study of Commercial Law and Insurance.
One hour throughout the session. Professor B. Claxton.

(c) Negotiable Instruments.
Two hours, first term. Professor F. R. Scott.

(d) Maritime Law and Carriers.
One hour, first term. Professor F. R. Scott.

Civil Procedure and Evidence

Two hours, first term. Mr. W. F. Macklaier.
Three hours, second term. Professor O. S. Tyndale.

Conflict of Laws

Oue hour throughout the session. Professor C. S. Le Mesurier.

Industrial Law

Arrangements to be announced. Professor F. R. Scott.

*(2) Administrative Law

Two hours throughout the session. Professor J. P. Humphrey.

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*(1) Criminal Procedure will not be given in 1943-44. Evidence in Criminal Matters will be given one hour, first term, 1943-44.

*(2) Nor given in 1943-44.

ADMISSION TO THE LEGAL PROFESSIONS IN QUEBEC

Candidates proceeding to the Quebec Bar must be British subjects, hold the degree of B.A., B.Litt., or B.Sc. from a Canadian or British university, and satisfy the Bar Examiners that they have successfully completed "the regular course in philosophy" in an approved university. The latter course may be taken concurrently with the law course.

Candidates for admission to the Notarial profession must also be British subjects and hold the degree of B.A., B.Litt., or B.Sc. from a Canadian, English, or French university.

Further information regarding admission to the Bar can be obtained by applying to Mr. Charles Coderre, K.C., Room 15, Old Court House, Montreal, or by consulting the Bar Act, 1925, R.S.Q. chap. 210 (as amended). Information regarding admission to the Notarial profession can be obtained by applying to Mr. Arthur Courtois, Room 320, New Court House, Montreal, or by consulting the Notarial Code, 1925, R.S.Q., chap. 211 (as amended).

McGILL UNIVERSITY

MONTREAL

FACULTY OF MUSIC

1943 - 1944

INDEX

	Page
Admission	644
Bursaries	648
Calendar	640
Classes of Students	644
Conservatorium Regulations	646
Facts of Historical Interest	642
Fees	645
Lecture Time Table	639
Public events during 1942-1943	643
Scholarships	647
Sessional Announcement	644
Staff	636
Public Examinations for Degrees and Diplomas.	
Centres of Examinations	676
Degrees in Music, Mus. Doc	722
" " " Mus. Bac	648
Diploma in Music, Regulations for Licentiate in Music	651
" " " Regulations for Associateship in Music	668
Exemption from First and Second Mus. Bac. Examinations	649
Fees	646
Local Representatives and Secretaries	676
Matriculation	648
Public Examinations for "Instructor in School Music" Certificate	669–672
Practical Examinations for Licentiate	652
Teachers' Examination and Courses	663
Public Local Examinations.	
Advice to Teachers and Candidates	673–4
Class Singing Examinations	680–721
Centres of Examinations	676
Fees	680
General School Examinations	680 & 720
Local Representatives and Secretaries	676
Practical Examinations	682
Regulations for Examinations	674
Theoretical Examinations	680

McGILL UNIVERSITY

VISITOR

His Excellency the Governor-General of Canada

CHANCELLOR

PRINCIPAL

F. Cyril James, Ph.D., D.C.L., LL.D.

DEAN OF THE FACULTY OF MUSIC AND DIRECTOR OF THE CONSERVATORIUM

Douglas Clarke, M.A., Mus.B., F.R.C.M., F.R.C.O.

BURSAR

William Bentley, C.G.A.

REGISTRAR

T. H. Matthews, M.A.

VICE-DIRECTOR AND SECRETARY OF THE CONSERVATORIUM OF MUSIC

R. de H. Tupper, Address:—677 Sherbrooke St. W., Montreal

All communications should be addressed to the Secretary of the Conservatorium, as shown above.

STAFF OF THE CONSERVATORIUM

DIRECTOR:—MR. DOUGLAS CLARKE, M.A., Mus.B., F.R.C.M., F.R.C.O.
VICE-DIRECTOR:—Mr. R. de H. TUPPER

PIANOFORTE

MR. WALTER HUNGERFORD
MR. HUGH MCEACHRAN, L.Mus.
MR. IRVIN COOPER, Mus.B.
MR. JOHN J. WEATHERSEED, F.R.C.O.
MR. SEVERIN MOISSE
MR. J. B. SPEIRS, L.R.A.M., A.R.C.M.
MISS EDITH JOHNSON

JUNIOR PIANOFORTE DEPARTMENT

MR. FRANK HANSON, Mus.B.
MISS GITA MILLER, L.Mus.
MISS JOYCE PICKUP, L.R.A.M., A.R.C.M.

ORGAN

MR. J. J. WEATHERSEED, F.R.C.O.

SINGING

MR. WALTER CLAPPERTON, Hon. A.R.C.M.
MISS JEAN L. MILLAR

SIGHT SINGING AND PART SINGING

MR. WALTER CLAPPERTON, Hon. A.R.C.M.
MR. IRVIN COOPER, Mus.B.

CHORAL STUDY AND APPRECIATION CLASS

THE DIRECTOR

CHORAL AND OPERATIC CLASS

MR. WALTER CLAPPERTON, Hon. A.R.C.M.

PIANOFORTE ACCOMPANIMENT AND VOCAL REPERTOIRE

MR. WALTER CLAPPERTON, Hon. A.R.C.M.

ELEMENTARY AND HIGHER THEORY, MUSICAL DICTATION AND AURAL TRAINING

THE DIRECTOR
MISS MARGARET BENNETT
MR. IRVIN COOPER, Mus.B.
MR. CLAUDE CHAMPAGNE
MR. FRANK HANSON, Mus.B.

History, Aesthetics, Form and Analysis

The Director — Mr. John J. Weatherseed, F.R.C.O.

School Of Music

Mr. Irvin Cooper, Mus.B.

School Class Teachers' Training Course

Mr. Irvin Cooper, Mus.B.

Teachers' Methods and Materials

Mr. Frank Hanson, Mus.B.

Harmony and Counterpoint

The Director — Mr. Frank Hanson, Mus.B.
Mr. Claude Champagne — Mr. Irvin Cooper, Mus.B.

Composition and Orchestration

The Director — M. Claude Champagne

Violin and Viola

Mr. M. Onderet — Madame J. R. Gilbert
Mr. Alexander Brott. L.Mus. — Mr. Stephen Kondaks (On active service)

Violoncello

Mr. Raoul Duquette — Mr. Jean Belland

Double Bass

Mrs. G. Probyn

Flute

Mr. F. Hardman
Mr. H. E. Baillargeon

Oboe

Mr. Real Gagnier
Mr. R. Luckett

Clarinet

Mr. J. Moretti

Bassoon

Mr. R. de H. Tupper

French Horn

Mr. J. E. MacDonald

TRUMPET
MR. G. E. JONES

TROMBONE
MR. E. FOWLER

TYMPANI AND PERCUSSION
MR. L. DECAIR

HARP
MRS. J. DROUIN-ADKINS

CONSERVATORIUM ORCHESTRA
MR. R. DE H. TUPPER

CONDUCTING CLASS
THE DIRECTOR
MR. R. DE H. TUPPER

CHAMBER MUSIC AND INSTRUMENTAL ENSEMBLE
THE DIRECTOR

CHAMBER AND ORCHESTRAL MUSIC
REPERTORY AND OPERA
THE DIRECTOR
MR. R. DE H. TUPPER

DALCROZE EURYTHMICS
MLLE. GENEVIEVE BUGNION

MODERN LANGUAGES (ITALIAN, FRENCH, GERMAN AND SPANISH)

By arrangement with the Romance and Germanic Languages Departments of the University, students in Music have special facilities afforded them for studying these languages.

ACOUSTICS

THE DIRECTOR — PROF. H. E. REILLEY, M.Sc.

PHYSIOLOGY AND HYGIENE OF THE VOICE

EXTRA-MURAL COURSES

Pianoforte and Violin classes are held in various schools throughout the City and vicinity. Information with regard to these can be obtained from the Secretary of the Conservatorium, who can also furnish the names of teachers in the City who prepare pupils privately for the McGill Local Centre examinations.

PHYSICAL TRAINING

DR. A. S. LAMB, B.P.E. — MISS IVEAGH MUNROE, M.S.P.E., B.Sc., M.A.

(See Conservatorium Regulations, page 646.)

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	3rd Mus. B. Harmony					Elementary Grade Theory Senior Grade Theory
10 to 11	3rd Mus. B. Counterpoint		3rd Mus. B. Form and Analysis			Junior Grade Theory Intermediate Grade Theory
11 to 12	3rd Mus. B. Canon, Fugue, etc.		3rd Mus. B. History			Elementary—Junior Grade Theory
12 to 1					Conducting Class	Elementary Grade Theory
1 to 2					3rd Mus. B.	
2 to 3	1st Mus. B. Harmony	2nd Mus. B. Harmony			3rd Mus. B.	
3 to 4	1st Mus. B. Counterpoint and Canon and Fugue 2nd Mus. B. History	Chamber & Orchestral Repertory and Score Reading (Mus. 2 & Arts 3) Counterpoint, Canon and Fugue 3rd Mus. B. History	2nd Mus. B. Form and Analysis Orchestral Repertory (2) (Mus. 3 & Arts 4)		3rd Mus. B.	
4 to 5	Elementary Grade Theory Highest Grade History Dalcroze Eurythmics	Highest Grade Form and Analysis Orchestral Repertory and Score Reading (1) 2nd Mus. B.	Junior Grade Theory 4.15 Intermediate Grade Theory	Aural Training (Junior) Highest Grade Harmony		
5 to 6	Aural Training (Senior)	Senior Grade Theory	1st Mus. B. History	Highest Grade Counterpoint 1st Mus. B. Form and Analysis		
6 to 7						
7 to 8	Music in Education (1)	Keyboard Harmony Acoustics	Music in Education (2)	Acoustics	General Throey Class	
8 to 9	Dalcroze Eurythmics		Teachers' Methods and Materials Class	Conservatorium Orchestra (2 hrs.)		

CALENDAR FOR 1943-44

1943

Mon.,	Sept.	13th	First day of session. Teaching begins in all branches of Practical Music.
Mon.,	Sept.	27th	Lectures in Sight Singing, Theory, Harmony, Counterpoint, History, Form and Analysis, Canon and Fugue, Transposition and Orchestration begin.
Wed.,	Oct.	6th	Founder's Day. (James McGill born Oct. 6th, 1744, died Dec. 19th, 1813).
Wed.,	Oct.	6th	Convocation.
Fri.,	Oct.	8th 8 p.m.	Presentation at the Royal Victoria College of Diplomas of Associateship and certificates gained in the examinations at the end of last session.
Thurs,.	Nov.	11th	Remembrance Day.
Sat.,	Dec.	18th	All lessons and classes end until after the Christmas vacation.

1944

Mon.,	Jan.	3rd	All lessons and classes resumed.
Wed.,	Feb.	2nd	First Students' Recital in Conservatorium Hall.
Fri.,	Feb.	11th	First Junior Students' Recital in Conservatorium Hall.
Wed.,	Mar.	15th	Second Students' Recital in Conservatorium Hall.
Fri.,	Mar.	24th	Second Junior Students' Recital in Conservatorium Hall.
Sat.,	April	1st	Last day for examination entries.
Fri.,	April	7th	Easter Vacation.
Mon.,	April to April (inclusive)	10th	
Fri.,	April	29th	Examinations in Theory begin (see page 674).

Mon., May 8th Practical Examinations begin at the Conservatorium.

Mon., May 9th Examinations in Higher Theoretical Music begin.

Sat., May 6th Last day of Lectures.

Thurs., May 25th Convocation.

Sat., June 3rd Last day of lessons. Conservatorium closes.

FACTS OF HISTORICAL INTEREST

1904, September 21st	First day of teaching at the McGill University Conservatorium of Music. (Dr. C. A. E. Harris, Director.)
1904, October 14th	Conservatorium formally opened by their Excellencies, Lord and Lady Minto, First Recital.
1908, October	Dr. Harry Crane Perrin takes up his duties as Director of the Conservatorium and first Professor of Music in McGill University.
1909, February 23rd	First Orchestral Concert.
1910, February 17th	First Choral Concert.
1910, April, May, June	First Local Centre examination throughout the Dominion.
1910, June 9th	First Mus. B. Degree conferred.
1911, May 12th	First Mus. D. Degree conferred.
1917,	Conservatorium endowed by Sir William Macdonald.
1918, May 1st	Resignation (owing to illness) of Sir William Peterson, K.C.M.G., as Principal of the University.
1920, April 26th	The Governors of the University constituted a Faculty of Music with Dr. Perrin as Dean of the Faculty.
1920,	General Sir Arthur Currie, G.C.M.G., K.C.B., appointed Principal of the University.
1921,	Two Music Scholarships founded as a memorial to the late Sir William Peterson.
1922,	Two Music Scholarships founded as a memorial to the late Sir William Macdonald.
1923,	Conservatorium building becomes the property of the University by deed of gift from Lady Strathcona in accordance with the wishes of her father, the late Lord Strathcona.
1929, September	Mr. Douglas Clarke takes up his duties as Director.
1930, September	Mr. Douglas Clarke appointed Dean of Faculty of Music.
1933, November 30th	The Principal, Sir Arthur Currie, died.
1935, October 5th	Mr. A. E. Morgan installed as Principal and Vice-Chancellor.
1938, January 7th	Mr. Lewis W. Douglas installed as Principal and Vice-Chancellor.
1940, January 12th	Dr. F. Cyril James installed as Principal and Vice-Chancellor.

PUBLIC EVENTS OF SESSION

The chief public events of last session were:—

1942

October 9th Presentation at the Royal Victoria College of Diplomas of Associateship and certificates gained in the examinations at the end of last session.

October 14th Scholarships were awarded as follows:—

Macdonald Memorial Scholarship—divided between:
Sona Pecmanova—Violin.
Robert Turner—Theoretical Subjects.
Samson Rosemarin—Violin.
Jean Cameron—Theoretical Subjects.

Peterson Memorial Scholarship—divided between:
Jean Brown—Singing.
Doreen Marshall—Singing
David Schecter—Violoncello.

Ellen Ballon Scholarship—divided between:
Samuel Blumenthal—Pianoforte.
Norman Lesser—Pianoforte.

Conservatorium Bursary:
Michel Perrault—Tympani.
Jean Lafontaine—Clarinet.

November 12th First Concert by Examination candidates who obtained highest marks in their grades.

19th Second Concert by Examination candidates who obtained highest marks in their grades.

1943

February 2nd Recital by Senior Students in Conservatorium Hall.

February 19th Recital by Junior Students in Conservatorium Hall.

February 25th Concert by Conservatorium String Orchestra in the Royal Victoria College.

March 16th Second Recital by Senior Students in Conservatorium Hall.

April 2nd Second Recital by Junior Students in Conservatorium Hall.

May 28th Concert by the Conservatorium Orchestra in Royal Victoria College.

SESSIONAL ANNOUNCEMENT

The work of the Conservatorium of Music for the season 1943-44 will begin on September 13th, 1943, and will end on June 5th, 1944. It consists of three terms of eleven weeks each, with an additional summer term of three weeks, viz.:—

(a) September 13th to Nov. 27th.

(b) November 29th to February 26th (Christmas vacation, December 18th to January 3rd).

(c) February 28th to May 13th.

Short summer term if desired.

Lectures arranged in progressive courses are offered as forming part of a connected curriculum, leading to certificates and diplomas, as well as to degrees in Music in the University.

The lectures will begin in the last week of September and extend over three terms of ten weeks each, viz:—

(a) September 27th to December 4th.

(b) December 6th to February 26th.

(c) February 28th to May 6th.

The examinations in Montreal for certificates and diplomas will be held towards the end of the third term, i.e., from May 8th to May 20th. The Theoretical Examinations which precede the Practical Local Examnations will begin approximately May 1st (see page 674).

ADMISSION

Students of the Conservatorium are admitted either as:—

Regular Students, taking an organized course, which includes individual instruction in a First and Second Subject, together with such classes and lectures as may be thought advisable by the Director, leading to the Diploma of Licentiate in Music or the Degree of Bachelor of Music in the University.

Partial Students, who, besides individual instruction in the one principal subject, have the privilege of attending certain classes. Instrumentalists are, at the discretion of the Director, assigned to certain of the following classes:—Theory, Harmony, History, Form and Analysis; Ensemble Playing. Vocalists are assigned to two of the following classes: Theory, Sight-Singing, Choral Class.

Class Students. Those wishing to attend lectures or classes only in either theoretical or practical subjects.

FEES

CONSERVATORIUM OF MUSIC

The fees are as follows:—

Regular Students, $225.00 a year payable at the beginning of the session (not later than October 1st) or in two instalments of $115.00 each, payable before October 1st and January 15th, respectively. This sum also covers the fees for the Diploma or Degree Examination at the end of the year, as well as fees to Students' Societies, and charges for Physical Education—which is compulsory.

At the request of the students themselves and by the authority of the Senate, a fee of $10.00 is collected from all men undergraduates for the support of certain Student Societies, the use of the skating rinks and tennis courts during the session and for admission to the home games under the control of the Athletic Board. Women undergraduates pay a fee of $8.00.

Partial Students. $15.00 to $60.00 (according to instructor selected) per term of eleven weeks. Students paying in full for three terms of eleven weeks each are allowed to take the examination for a Local Centre Examination Certificate at the end of the year without any further fee.

Class Students. Fees vary between $5.00 and $25.00 per term, according to class. Precise information can be obtained on this point from the Secretary.

The fees for examinations for Certificates, when not included in the term fees as above mentioned, are the same as the fees for the Local Examinations. (See page 680).

In all cases fees must be paid strictly in advance at the office of the Conservatorium.

No individual or class lessons will be given to any student who is unable to produce a receipt showing that the necessary fees have been paid.

FEES FOR DIPLOMA AND DEGREE EXAMINATIONS

DIPLOMA OF ASSOCIATE (A.Mus.)—Fees for examination, $15.00. Diploma fee, $2.50.

DIPLOMA OF LICENTIATE (L.Mus.)—Fees for examination, $45.00, of which $15.00 is payable at each examination. Diploma fee, $5.00.

DEGREE OF BACHELOR OF MUSIC (Mus.B.)—Matriculation fee, $10.00 (see General Announcement of the University). Fees for examinations payable as follows:—First examination in Music, $20.00. Second examination in Music, $20.00. Final examination in Music, $20.00. Graduating fee, $20.00.

Although under special conditions exemptions from certain examinations for the Diplomas of Associate and Licentiate and Degree of Bachelor of Music may be allowed, there is no exemption from the *fees* given above, except in the case of candidates holding the requisite McGill Local Centre Certificates.

DEGREE OF DOCTOR OF MUSIC (Mus.D.)—Fee $100.00, one-half of which ($50.00) is paid when submitting exercise and the balance ($50.00) before the final examination.

N.B,—Candidates examined in theoretical subjects connected with the above Degrees, Diplomas and Special Certificates at centres other than Montreal will probably have to pay a local supervisor's fee in addition to the fees stated above.

CONSERVATORIUM REGULATIONS

1. Fees are not refunded, nor is the length of the term extended on account of temporary absence. Absence from lessons caused by prolonged illness may be allowed for, provided the Secretary is notified and a Doctor's certificate presented.

2. *No business matters can be arranged through the instructors, but must be transacted through the office.*

3. Students cannot register for less than a term and must notify the Secretary, at least a week before the end of the term, if they wish to discontinue lessons, otherwise it is understood that lessons will be continued through the following term and fees for the full additional term must be paid.

4. Any lessons missed in consequence of the instructor's absence will be made up at the mutual convenience of instructor and pupil. Lessons missed by students are their loss, unless a Doctor's certificate is produced, when lessons will be made up, but no fees will be refunded or remitted.

5. *All students must sign the attendance register in the office immediately after each lesson.*

6. Every student (except those attending schools) must, at the beginning of eash session, *either* produce a medical certificate from his or her medical attendant *or* be examined by the Medical Officer appointed by the University. See General Announcement.

7. No student suffering from an infectious or contagious disease, or who is, in the opinion of a competent medical attendant, in any way brought into contact with any person infected with such disease, is allowed to attend.

8. Students are required to be punctual at lessons, lectures, concerts and examinations.

9. Notices on the bulletin boards are official, and students are requested to pay due attention to such as may be posted there.

10. No change in course or teacher can be made without first obtaining the consent of the Director.

11. Students are advised to take the sessional examination (the form of such examinations to be decided by the Director) and are prepared for the same by the instructor or instructors to whom they are assigned.

12. *Students wishing either to take part in any public musical performance, publish a composition, or accept a professional engagement, must first obtain the consent of the Director.*

13. The name of each lecture and the hours at which the classes are held will be posted on the notice boards.

14. *Registered students of the Conservatorium must take part in either recitals or concerts, if required to do so by the Director.*

15. Visitors are not allowed to be present during any lesson (class or private) except by permission.

16. The Director has the right to refuse or to cancel at any time the registration of any individual whose presence in the Conservatorium may appear detrimental to its interests.

17. Smoking within the building is absolutely prohibited.

18. Physical education is compulsory for all regular students of the first two years, two periods per week being devoted to it. No student is asked to do work unsuited to his or her physique, and students debarred from exercise of any kind are dealt with separately and carefully advised.

SCHOLARSHIPS

THE SIR WILLIAM PETERSON MEMORIAL SCHOLARSHIPS.—Established in 1921 by the University and by friends, graduates and pupils of the Faculty of Music. The interest upon the original endowment of $6,055 is used to support two scholarships in Music as a memorial to the late Sir William Peterson.

For further details consult the Secretary of the Faculty.

THE SIR WILLIAM MACDONALD MEMORIAL SCHOLARSHIPS.—Established in 1922 by the University. The interest upon the original endowment of $6,000 is used to support scholarships in Music as a memorial to the late Sir William Macdonald.

For further details consult the Secretary of the Faculty.

ELLEN BALLON PIANO SCHOLARSHIP.—Founded in 1928 by a gift of $1,500 from Miss Ellen Ballon, a graduate of the Conservatorium. The principal has been increased by a further gift of $1,500.00 from Miss Ballon. In making this award the Faculty takes into account the need as well as the ability of candidates.

For further details consult the Secretary of the Faculty.

UNIVERSITY BURSARIES

Full-time students studying for the Licentiate in Music or for the Bachelor of Music degree may apply for University Bursaries. For details see the separate Scholarships Announcement which may be obtained from the Registrar's Office.

REQUIREMENTS FOR DEGREES

(For Fees, see page 646)

For requirements for the Degree of Doctor of Music, see page 720.

DEGREE OF BACHELOR OF MUSIC

All candidates for this degree must pass the following examinations:—

1. The Matriculation examination.
2. The First examination in Music (at the end of the first year).
3. The Second examination in Music (at the end of the second year).
4. The Final examination in Music (at the end of the third year).

A specimen set of papers for each of the three examinations in Music can be obtained from the Secretary, price 25c. each.

THE MATRICULATION EXAMINATION

The Matriculation Examination is held yearly, in June, at McGill University and at various centres throughout the Dominion. There is also an examination held in September, but at McGill University only. Candidates for musical degrees are examined in the following:—

1. English (two papers).
2. History (one paper).
3. Two of the following languages:—French, German, Latin, Italian, Spanish (two papers in each of the two languages chosen by the candidate).
4. Algebra or Geometry (one paper).
5. Music—one paper. The paper set is that of the Highest Grade (Harmony and Counterpoint) of the local theoretical examination in Music and must be taken by the candidate at the regular examinations held by the Conservatorium in May.

Further information with regard to this examination, and exemption therefrom through the possession of certain equivalent certificates, can be obtained from the Registrar of the University.

EXAMINATIONS IN MUSIC

The first and second practical studies are no longer required. In their place reading from open score is required in each part of the Mus.B. examination.

First Examination in Music

(a) Harmony in three and four parts.

(b) Strict Counterpoint up to three parts, answers to Fugue subjects, and Fugal Exposition and episode in two parts.

(c) Form and analysis. Questions will be given on accent, cadence, metre, rhythm, phrasing, etc., and on the form of the pieces included in lists A and B of the Highest Grade Piano Local Centre Examinations.

(d) Musical History, 1600-1900.

(e) Playing on the pianoforte from open vocal score (G & F clefs only).

(f) Viva voce.

Second Examination in Music

(a) Harmony in not more than four parts, choral and instrumental.

(b) Counterpoint (strict and free) in not more than four parts.

(c) Canon in two parts and fugal exposition up to four parts.

(d) History of music from earliest times to A.D. 1600.

(e) Form and analysis. The candidate must show an intimate knowlege of a few compositions, the names of which will be supplied on application, at least three months before the date of examination.

(f) Elementary knowledge of acoustics or physiology of the voice.

(g) Playing on the pianoforte from string quartet score.

(h) Viva voce.

The possession of the Diploma of Licentiate of Music obtained either under Class I or Class III from McGill University exempts candidates from the necessity of taking the First and Second Examinations for Mus. B., and, accordingly, candidates can proceed direct to the Final Examination, provided that they have matriculated.

Final Examination in Music

(a) Harmony up to five parts.

(b) Free Counterpoint, up to five parts, in 16th century style.

(c) Double Counterpoint in 8ve, 10th and 12th.

(d) Canon and fugue in three and four parts.

(e) History of music from 1900 to present.

(f) Form and analysis. Knowledge will be required of such works as the following:—Bach's 48 Preludes and Fugues; Beethoven's Pianoforte Sonatas; Schubert's, Schumann's and Brahms' Songs; an Opera *or* an Oratorio; Symphonies and Overtures by Mozart, Beethoven, Brahms, Mendelssohn, Wagner, besides contemporary works. Candidates may, at least three months before the examinations, obtain from the Secretary of the Faculty of Music a complete list of the works upon which the examination paper in this subject will be based.

(g) Instrumentation. A knowledge of the compass and capabilities of all instruments in the modern orchestra and the scoring of a given passage in a given time; also the reading at sight from an easy score of a classical composer.

(h) Two compositions to be sent in by a candidate, to be received by the Secretary of the Examining Board not later than the last day of the second week in April. One to be an unaccompanied vocal work (not an anthem) showing considerable vocal resource; the other to be a work for strings, or combination of not less than four instruments or full orchestra. The works may be in any form and the instrumental composition should take not less than seven minutes to perform. Candidates, when submitting their compositions, must send at the same time, a signed statement to the effect that the works are their own unaided efforts.

(i) Viva voce.

REQUIREMENTS FOR THE DIPLOMA OF LICENTIATE IN MUSIC

(For Fees, see page 646)

Candidates may elect to be examined either in:—

Class A—Theoretical Subjects and Composition, or

Class B—Practical Subjects as Performers, or as

Class C—Teachers in both Theory and Practice.

CLASS A—THEORETICAL SUBJECTS AND COMPOSITION

First Examination

(a) Advanced Rudiments, including Sight Reading and Ear Tests.

(b) The Harmony and Counterpoint paper of the Highest Grade Local Centre theoretical examinations.

(c) History and Form and Analysis paper of the Highest Grade Local Centre theoretical examinations.

Second Examination

Requirements a, b, c, and d are the same as those for the First Examination for Mus.B. (See page 649).

(e) Composition of a song (or two short songs) or a miniature suite for piano (or piano and violin, or any other combination), or an arrangement for S.A.T.B. (unaccompanied) or three female voices (accompanied or unaccompanied) of any genuine folk-song. *The parts must show character and independence.* The M.S. must be in the hands of the Secretary of the Examining Board, McGill Conservatorium of Music, Montreal, not later than the last day of the second week in April.

Third Examination

Requirements a, b, c, d and e are the same as those of the Second Examination for Mus. B. (See page 649).

(f) Practical work on pianoforte or organ. The requirements are those of the Senior Grade of the practical local examinations. Exemption from this test may be claimed if candidates possess certificates showing that they have passed that examination.

(g) Composition of (1) a movement in Sonata form (for either pianoforte, or organ, or violin and pianoforte, or any other combination); or (2) a Chorus with independent accompaniment for strings or some combination of orchestral instruments (*not an anthem*); or (3) an extended composition for strings. This must be received by the Secretary not later than the last day of the second week in April.

(h) Viva voce.

CLASS B—PRACTICAL SUBJECTS AS PERFORMERS

FIRST EXAMINATION

Candidates are required to pass Senior Grade of the Local Centre Examination in Theory. (See page 681).

and

(a) Easy Transposition Tests (for instrumentalists only).

(b) Diction in respect of Modern Languages (for singers only).

(c) Practical work either as Vocalist or Instrumentalist, in Principal Study, the requirements of which will be those of the Highest Grade of the practical local examinations. Candidates will be asked questions on the form of the works presented, as well as questions relating to keys and modulations.

SECOND EXAMINATION (SEMI-FINAL)

The requirements for candidates whose chief study is either pianoforte, or violin, or violoncello, or organ, or singing, are found under separate headings.

PIANOFORTE

(No written examination)

1. *Scales.*

Major, minor (both forms) and chromatic scales at the distance of 8ve, 3rd, 6th and 10th through four octaves; also in double 3rds (in similar motion only) and double 8ves through two octaves.

The candidates must be prepared to play all the above-mentioned scales in all keys, in either similar or contrary motion, beginning on either the highest or lowest notes, and with either legato or staccato touch (double 3rds in similar motion only).

2. *Arpeggios.*

Common chords, with hands commencing either an 8ve, 3rd, 6th, or 10th part, in similar and contrary motion, also common chords in double octaves, legato and staccato, beginning on either the highest or lowest notes; dominant and diminished 7ths in similar motion an octave apart or at any inversion or interval; in contrary motion commencing either on the same note and working outwards, or on the extreme notes and working inwards. Also double octaves.

3. *Reading at Sight.*

4. *Transposition.*

Of a short passage, a semi-tone above or below.

5. *Performance.* (Extra marks will be given for playing from memory.)

(a) One of the following Preludes and Fugues:—

Prelude and Fugue No. 12 in F minor—Book I
No. 19 in A major—Book I
No. 5 in D major—Book II
No. 10 in E minor—Book II
.....BACH

or

French Suite No. 1 in D minor.....BACH

(b) Variations on a Hungarian Song—Op. 21 No. 2
or
Variations on a theme by Schumann—Op. 9
.....BRAHMS

or

24 Variations in D Major on "Vieni amore" by Righini—
BEETHOVEN

(c) Etudes: Op. 25, Nos. 1 or 9, or
Op. 10, Nos 3 or 5
or
Nocturnes Op. 15 No. 2 or Op. 48 No. 1, or
Op. 9 No. 3.
.....CHOPIN

(d) Ragamuffin.....JOHN IRELAND
or Preludes 14 (E flat minor *and* 18 (F minor) of 24 Preludes—Op. 11.....SCRIABIN
or Danse profane (from Two Dances)—(1) Danse sacrée,
(2) Danse profane.....DEBUSSY

(e) A piece of the candidate's own choice.

6. Questions will be asked on the general outlines of form shown in the pieces and also on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLIN

(No written examination)

1. *Scales.*

Any major or minor scales, selected by the examiners in thirds, sixths, and octaves, one note to each bow, through two octaves. Also any of the ordinary scales through three octaves with various bowings. Chromatic scale starting from F in the first position (D string) through two octaves.

2. *Arpeggios.*

All major and minor chords throughout three octaves, and in octaves throughout two octaves. Dominant sevenths and diminished sevenths in all keys throughout three octaves.

3. *Reading at Sight.*

4. *Performance.*

Candidates must perform any one Etude from each of the following composers:—Kreutzer, Fiorillo, Gavinies, and Rode, and also play one of the following Sonatas:—

Concerto No. 5 in A major (K. 219).....MOZART
Sonata in F major (Op. 24).....BEETHOVEN
Sonata in G major (Op. 30 No. 3).....BEETHOVEN
Sonata in G major (Op. 78).....BRAHMS

5. *Questions.*

Questions will be asked on the general outlines of form shown in the studies and pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLONCELLO

(No written examination)

1. *Scales.*

Major, minor (melodic form), and chromatic scales in all keys.

2. *Arpeggios.*

Studies Nos. 10 and 15.....J. L. DUPORT
Any two studies.....DOTZAUER
(From 24 Daily Exercises. Augener.)

3. *Reading at Sight.*

4. *Performance.*

Candidates must be prepared to play one piece from any two of the following groups—two items in all:—

(a) Suite No. 1.....J. S. BACH

(b) Sonata in E minor (Op. 38).....BRAHMS
(1st movement only) or
Sonata in F (Op. 99).....BRAHMS
(1st movement only) or
Sonata in A major (Op. 69).....BEETHOVEN
(The whole)

(c) Also any two of the following pieces:—
Seven Variations on a Theme from "The Magic Flute" (Op. 66).....BEETHOVEN
Two Poems.....HUGO ANSON
(Oxford University Press)
Slumber Song (arr Harvey Grace).....BACH
(Oxford University Press)
Five Irish Folk Tunes.....HOWARD FERGUSON
(Oxford University Press)

5. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLA, DOUBLE-BASS, HARP AND WIND INSTRUMENTS

Requirements will be forwarded to candidates on application to the Secretary, 677 Sherbrooke Street West, Montreal.

ORGAN

(No written examination)

1. *Scales.*

(a) Manuals only (with both hands).

(b) Pedals only.

(c) One hand only with pedals, at varying degrees of speed and beginning with either the highest or lowest note.

In the case of (a) and (c) contrary motion may be required.

2. *Arpeggios.*

(a) For pedals through two 8ves; common chords, major and minor in keys of C, D, D flat, E flat, E, and F.

(b) One hand and pedals combined, in contrary motion.

3. *Reading at Sight.*

4. *Transposition.*

Of a short passage, a semitone above or below.

5. *Performance* of either List A or List B.

List A.

BUXTEHUDE: Prelude and Fugue (Ed. Ley) (Oxford University Press) No. 14 in G minor.

BACH: In Dulci Jubilo: (Book XV, page 26; Novello Ed.; or page 244, Peters Ed.).

STANFORD: No. 6 of 6 Preludes and Postludes, 2nd set Op. 105. (Stainer & Bell).

List B.

BACH: Vivace from Trio Sonata in D Minor No. 3. (Novello or Peters).

MENDELSSOHN: Last Movement 5th Sonata. (Any edition).

FRANCK: Prelude Fugue and Variation (B. minor). (Peters 3744A).

6. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

SINGING

(No written examination)

1. *Scales and Technical Exercises.*

Major, minor, and chromatic scales at varying degrees of speed.

(For example, see Randegger's Singing Primer, pages 38, 41 and 48). Also any six of the technical exercises given on pages 161 to 169 of the same work, selected according to voice.

2. *Arpeggios.*

See Randegger's Singing Primer, pages 102, 104 and 107.

3. *Reading at Sight.*

4. *Performance.*

Studies.

Soprano or Tenor—Any two from No. 1 to No. 17, Fourth Series.
Part I. 30 Solfeggios.....VITTORIO RICCI

Alto or Bass—Any two from No. 1 to No. 17, Fourth Series.
Part II. 30 Solfeggios.....VITTORIO RICCI

Medium Voices—Any two from No. 1 to No. 17, Fourth Series.
Part III. 30 Solfeggios.....VITTORIO RICCI

The selection of the pieces to be rendered in this examination is left to the candidates, who must, however, choose music of the following character:—

(a) Two specimens of Recitative.

(b) Two arias from an Oratorio or Oratorios,
or
Two arias from an Opera or Operas.

(c) One song by any of the following composers:—SCHUMANN, SCHUBERT, FRANZ, BRAHMS, LOEWE, PARRY, ELGAR, WOLF, HENSCHEL, STANFORD, SCOTT, IRELAND.

(d) One song by any of the following composers:—BALAKIREFF, GREIG, HAHN, SIBELIUS, ARMSTRONG GIBBS, HOLST, VAUGHAN-WILLIAMS, STRAUSS, DELIUS and FAURE.

(e) Two specimens of Folk Song from "A selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

N.B.—The selection made will be taken as an indication of the candidate's taste.

5. *Questions.*

Questions may be asked as to the style of the pieces selected and the modulations or keys through which the music passes, etc.
Questions may be asked on the more advanced rudiments of music.

THIRD EXAMINATION (FINAL)

The requirements for candidates whose chief study is either Pianoforte, or Violin, or Violoncello, or Organ, or Singing, are found under separate headings. There is no written examination.

PIANOFORTE

1. *Transposition Test.*

   The transposition of a passage a tone above or below.

2. *Sight Reading Test.*

3. *Questions.*

   Questions will be asked on musical history from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

4. *Performance.*

   One of the specified items from each group to be prepared:

   (a) Prelude and Fugue in F sharp major, Bk. I
   Prelude and Fugue in C sharp major, Bk. I
   Prelude and Fugue in A flat major, Bk. II
   Prelude and Fugue in D sharp minor, Bk. II
   Prelude and Fugue in C sharp minor, Bk. II
   French Suites Nos. 4, 5 or 6
   ..... BACH

   Chromatic Fantasia and Fugue ..... BACH

   (b) Any *two* of the following Etudes: Op. 10, Nos. 1, 2, 7, 8; Op. 25, Nos. 6. 8, 10, 11 ..... CHOPIN

   (c) Concerto No. 5, Op. 73
   Sonata in E, Op. 109
   Sonata in E flat, Op. 81a
   ..... BEETHOVEN

   Sonata in B minor, Op. 58 ..... CHOPIN
   Sonata in G minor, Op. 22 ..... SCHUMANN

   (d) Variations on "O Mistress Mine" (Novello) ..... BYRD
   Variations in A ..... GLAZOUNOV
   (Omitting variations 4, 5, 12)
   Ballade in D major, Op. 10, No. 2 ..... BRAHMS
   Scherzo in E flat minor ..... BRAHMS
   Etudes Symphoniques
   (Theme and any three Etudes) ..... SCHUMANN

   (e) Reflets dans l'eau ..... DEBUSSY
   L'Isle Joyeuse ..... DEBUSSY
   Poissons d'Or ..... DEBUSSY

(Continued overleaf)

Special Note.—In place of a selection from sections (d) and (e) the candidates may present César Franck's Prelude, Choral and Fugue.

(e) Continued.

Bourrée Fantasque.....CHABRIER
(Enoch & Sons)
Ondine.....RAVEL
Sonatine.....RAVEL
Rhapsody.....JOHN IRELAND
A Reel, No. 4 of Four Irish Dances (Stainer & Bell).....STANFORD-GRAINGER

(f) A piece of the candidate's own choice.

NOTE.—Candidates must be prepared to play some, if not all, of these from memory.

5. *Examination in Second Study.*

Certificates gained in any of the three higher grades of the local practical examinations exempt candidates from this test, whether the subject chosen is Organ or Violin, or Violoncello, Singing or Wind Instrument.

VIOLIN

1. *Sight Reading Test.*

2. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

3. *Performance.*

One piece to be selected from each of the following groups:—

(a) Chaconne.....BACH
Sonata in G minor.....BACH
(For violin alone, Prelude and Fugue only.)

(b) Sonata in C minor, Op. 30, No. 2.....BEETHOVEN
Sonata.....DEBUSSY
Sonata.....RAVEL
Sonata in A.....CESAR FRANCK
Sonata in A minor.....JOHN IRELAND
(Winthrop Rogers)

(c) Concerto (1st two movements).....BEETHOVEN
Concerto (first movement).....ELGAR
Concerto in D minor (first two movements).....MAX BRUCH
Concerto No. 4 in D major.....MOZART
(First two movements; Joachim's Cadenza)
Concerto in A minor Op. 73.....GLAZOUNOV
First *or* second movement

(d) {Spanish Suite:
{Suite Espagnole.....NIN
Nigun—Improvisation.....ERNEST BLOCH
La Fontaine d'Arethuse.....SZYMANOWSKI
Variations.....JOACHIM

4. *Examination in Second Study* (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations in pianoforte exempt candidates from this test.

VIOLONCELLO

1. *Reading at Sight.*

2. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

3. *Performance.*

Sonata in D (for 'cello alone).....DONALD TOVEY
Sonata in F major (Op. 99).....BRAHMS
(First movement)
Sonata in E minor (Op. 38).....BRAHMS
(Last movement)
Spanish Nocturne.....E. GOOSSENS
(Pub. by Hawkes & Son)
Concerto (Op. 85).....ELGAR
Sonata (last movement).....DELIUS

4. *Examination in Second Study* (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations exempt candidates from this test.

ORGAN

1. *Transposition and Modulation Tests.*

The transposition of a passage into another key not exceeding a tone above or below. Modulation—Candidates are advised to make their modulation musically and not only mathematically correct.

2. *Sight Reading Test.*

3. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

4. *Performance.*

Of one piece from each of the following lists:—

(a) Prelude and Fugue in G major.....BACH
(Book VII Novello)
Prelude and Fugue in E flat major.....BACH
(Book VI Vol. II Novello)
Fantasia and Fugue in G minor.....BACH
(Novello VIII or Peters)
Prelude and Fugue in C minor.....VAUGHAN WILLIAMS
(Oxford University Press)

(b) Sonata in E minor No. 8 (Op. 132).....RHEINBERGER
(Novello)
Sonata in C sharp minor.....HARWOOD
(Schott)
Sonata Britannica No. 3 Op. 152.....STANFORD
(Stainer & Bell)
Sonata in G major Op. 28.....ELGAR
(Breitkopf & Hartel)
Sonata in G minor Op 28.....PIUTTI
(Peters)

(c) Dithyramb.....HARWOOD
Toccatina on "Corde Natus" (Augener).....EAGLEFIELD HULL
Concert Fantasia on "Hanover" (Novello).....E. LEMARE
Vorspiel and Liebestod (arr: J. E. West).....WAGNER
(Novello)
Choral in E.....FRANCK
Choral in B minor.....FRANCK
(Peters or Durand)
Introduction and Passacaglia.....ALCOCK
(Oxford University Press)

5. *Short Extemporization on a Given Theme.*

6. *Examination in Second Study.*

Certificates gained in any one of the three highest grades of the local practical examinations exempt candidates from this test, whether the subject chosen is either Pianoforte, or Violin, or Violoncello, Singing, or Wind Instrument.

SINGING

1. *Performance.*

   (a) Studies.

   Soprano or Tenor—Any two from No. 18 to the end of the Fourth Series, Part I, of 30 Solfeggios.....VITTORIO RICCI

   Alto or Bass—Any two from No. 18 to the end of the Fourth Series, Part II, of 30 Solfeggios.....VITTORIO RICCI

   Medium Voices—Any two from No. 18 to the end of the Fourth Series, Part III, of 30 Solfeggios.....VITTORIO RICCI

   (b) The principal solo work from an opera or oratorio.

   (c) Not less than three songs in various languages to exemplify proficiency in diction.

2. *Sight Reading Test.*

3. *Questions* on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

4. *Chief Study.*

   The studies by Vittorio Ricci must be prepared by all candidates, but as types of voices and capabilities of vocalists differ so much, it is impossible to specify satisfactorily other work on which any individual candidate will be examined. The Examination Board is prepared to accept in the Final Examination any works on which a correct judgment can be formed as to whether the candidate shall, after examination, be awarded the Diploma:—

   (a) As soloist for Concert Work only.

   (b) As soloist for Light Opera.

   (c) As soloist for Grand Opera.

   (d) As soloist for Oratorio.

   (e) As soloist for a combination of any of these.

   Candidates must submit to the Board of Examiners, through the Secretary, a list of works which they propose to present for the Final Examination.

5. *Second Study* (which must be the Pianoforte).

   Certificates gained in any one of the three highest grades of the local practical examinations for Pianoforte exempt candidates from this test.

   The ability of candidates to play their own accompaniments on the pianoforte to the vocal work prepared by them for the examination, together with the reading of a song accompaniment at first sight, will be accepted as second study.

CLASS C. TEACHERS' EXAMINATION (THEORY AND PRACTICE)

First Examination

(Partly written and partly viva voce)

Candidates are required to pass the Highest Grade of the Local Centre examinations in Theory. (See page 680).

Chief Subject.

Candidates will be expected to show sufficient executive ability to perform the technical work, studies and pieces contained in the list for the current year's local examination in the Highest Grade. (Total exemption from this examination can be claimed if candidates can produce certificates of having previously passed the Highest Grade, theoretical, and the Highest Grade, practical, of the local examinations.)

N.B.—Sight reading tests and ear tests will be given in each part of this examination.

Second Examination (Semi-Final)

(Partly written and partly viva voce)

1. Harmony in three and four parts up to chords of the 9th, including suspensions and use of passing notes.
2. Counterpoint in two parts.
3. Musical History 1600-1900.
4. The principles of Elementary Form and Analysis.
5. Chief Study.

Pianoforte.

For Scales, Arpeggios, reading at sight and transposition the requirements are the same as those for performer. (See pages 652 and 653.)

Performance.

Three Part Inventions.....Bach
Nos. 3 D major *and* 4 D minor.
or
Nos. 11 G minor *and* 12 A major.
(Tonmeister Edition)

and one of the following Preludes and Fugues

Preludes and Fugues No. 5 in D Book II
No. 20 in A minor Book II } .....Bach

and all of the following:—

Sonata in A flat, Op. 110.....Beethoven
Ballade in B major and minor, Op. 10 No. 3.....Brahms
Idylle (pub. Enoch, Paris).....Chabrier
Chelsea Reach.....John Ireland
(Augener)

(For Violin, Violoncello, Singing, Organ, etc., the requirements are those of the Semi-final Performer.)

Viva Voce.

Questions will take the following form:—

(1) On the position and action of hands, arms and fingers and on the use of the pedal.

(2) On the teaching of scales (in single notes) and arpeggios. (N.B. In Nos. 1 and 2 no arbitrary or doctrinal opinion will be held by the examiners. Any good method will be acceptable.)

(3) To finger certain technical passages presented by the examiner to the candidate.

(4) Questions will be asked on the general outlines of form shown in the pieces and on the contents of "The Growth of Music"—Part 3 by H. C. Colles, published by the Oxford University Press.

N.B.—Outline of questions likely to be asked in connection with Violin, Violoncello, Singing and Organ may be obtained from the Secretary of the Conservatorium.

6. Second Study.

The requirements are similar to those of the Senior Grade of the local examinations.

If the candidate's chief study is Singing, Pianoforte Accompaniment will be accepted as second subject.

THIRD EXAMINATION (FINAL)
(Written Examination)

1. Harmony in not more than four parts. (Choral and Instrumental)
2. Counterpoint (strict and free) in not more than four parts.
3. Fugal Exposition in three parts.
4. History of Music from earliest times to A.D. 1600.
5. Form and Analysis.
6. A paper on elementary Physiology of the Voice or on Acoustics.
7. A paper on the Art of Teaching of the candidate's chief subject.

Special Note.—This paper will consist of *set questions* based on the following:—

Candidates will be required to give names of Studies and Pieces with their Composers from classical or standard work, of different degrees of difficulty suitable for special purposes.

To answer questions on method and procedure in teaching.

To finger and phrase given passages, give breathing indications, etc.

Questions on Rhythm, Technique.

To give outlines of work for specific periods of Study.

Memorization and Appreciation.

To show such general knowledge, both musical and technical, as might be expected of a reasonably equipped music teacher.

VIVA VOCE EXAMINATION

Requirements will be found under a separate heading corresponding to the candidate's chief subject.

PIANOFORTE

1. (a) To answer questions on the teaching of double notes (3rds and 6ths) and double octaves, legato and staccato.

   (b) To answer questions on:—
   Production of tone.
   Phrasing.
   The playing of ornaments.
   Interpretation.
   Use of the pedals.

   (c) To finger certain technical passages presented by the examiner to the candidate.

   (d) To show an adequate knowledge of pianistic literature.
   (Questions here will embrace the works of Bach, Beethoven, Chopin, Schumann, Brahms, Debussy and Ravel.)

N.B.—Books recommended for reading "Technique and Expression" Franklin Taylor (Novello), and "Musical Interpretation" Tobias Matthay.

The History of Pianoforte Music (Westerby) and the various volumes of "The Pilgrim Series" (Oxford University Press).

2. Candidates must be prepared to play the following:—

   (a) Suite No. 2 in F (Tonmeister Ed.) ..... HANDEL
   or
   French Suite No. 1 in D minor ..... BACH
   or
   Prelude and Fugue in A minor (Book I) ..... BACH

   (b) Sonata No. 23 in C (The English) (Augener) ..... HAYDN
   or
   Sonatas—Op. 28 (in D major), or
   Op. 31 (in E flat), or
   Op. 78 (in F sharp major) ..... BEETHOVEN
   or
   Sonata in E minor Op. 7 ..... GREIG

   (c) Capriccio—Op. 76 No. 1
   Op. 76 No. 2 } Any two ..... BRAHMS
   Op. 76 No. 8
   or
   Fantasies Op. 116 (any two) ..... BRAHMS
   or
   Ballade Op. 118 No. 3 (G minor) ..... BRAHMS
   or
   Intermezzo Op. 119 No. 2 ..... BRAHMS

(These are all in the Brahms volume Book 2 published by Peters.)

(d) Christmas Pastoral (transcribed by Clarence Lucas).....BACH (Oxford University Press)

and one of the following:

Nocturne No. 5 in F sharp
Nocturne No. 18 in E } .....CHOPIN

Zigeuner-Novelle Op. 38 No. 3.....POLDINI

The Scarlet Ceremonies (from "Decorations").....JOHN IRELAND (Augener)

Variations on a Lettish Theme Op. 6.....JOSEPH WIHTOL

(e) A piece of the candidate's own choice by a modern English, French or Russian Composer.

3. Sight Reading Test.

VIOLIN

1. To demonstrate method of finger-training and bowing, posture and fingering, also to finger and bow certain passages, if required.
2. Should the Examiner desire it, the candidate must be prepared to give a student (who is not a pupil of the candidate) a specimen lesson, correcting, if necessary, any errors in bowing, intonation, posture, fingering, etc., and to answer questions and offer suggestions on the work after the student has retired.
3. To differentiate between mechanical and æsthetic expression.
4. To show ability to accompany on the pianoforte.
5. Candidates must be prepared to play any two Studies chosen by themselves from each of the following:—KREUTZER, FIORELLO, RODE, ROVELLI and GAVINES.
6. Performance.

(a) Any of the ten
Sonatas for Violin and Pianoforte.....BEETHOVEN
or Sonata in A minor (Op. 105).....SCHUMANN
or Sonata in A (Op. 100).....BRAHMS

(b) Any one of the following Concertos may be selected by the candidate:—

BEETHOVEN, MENDELSSOHN, ERNST in F sharp minor, PAGANINI, VIEUXTEMPS, TSCHAIKOWSKY, SAINT-SAENS in B minor, BRAHMS, ELGAR, WIENIAWSKI, BRUCH, LALO.

(c) Romance in E minor.....SINDING

or

Havannaise.....SAINT-SAENS

or

Rhapsodie Piedmontèse.....SINAGAGLIA

7. Sight Reading Test.

VIOLONCELLO

See under Violin for requirements 1, 2, 3, 4 and 7.

Candidates must be prepared to play:—

Nos 11, 16 and 20 Studies.....DUPORT
And any two Studies.....DOTZAUER
(From 24 Daily Studies)
Any one of the five Sonatas (selected by the candidate)..BEETHOVEN
To show a general knowledge of the Six Suites.....J. S. BACH
Symphonic Variations.....BOËLLMAN
Romance.....WAGNER-POPPER

ORGAN

1. To demonstrate method of instruction for overcoming difficulties in pedal technique, clear part playing, independence of hands and feet, position of body, stop management, etc.
2. To answer questions as to the causes of difference of tone between the various stops.
3. To explain the principles of pedalling and mark passages submitted to candidates for that purpose.
4. To be prepared to play one of the following groups and one piece of his own choice:—

(a) Sonata No. 2 in C minor.....BACH
(Book IV Novello)
Chorale in A minor.....FRANCK
Psalm Prelude No. 1.....HOWELLS
(Novello)

(b) Sonata No. 5 in C major.....BACH
(Book V Novello)
Prelude on Jesu, meine Freude—(Op. 65—No. 38)...KARG-ELERT
Largo Sostenuto (from a Sea Symphony)..VAUGHAN WILLIAMS
(Stainer & Bell)

(c) Chorale Prelude—Herr Jesu Christ, dich zu uns wend.....BACH
Sonata No. 1.....MENDELSSOHN
Prelude on Vexilla Regis.....BAIRSTOW
(Augener)

5. Sight Reading Test.
6. To extemporize and transpose.

SINGING

1. To demonstrate method of instruction in proper methods of breathing, tone, attack, evenness of tone, intonation, expression, overcoming of awkward breaks, resonance, facial expression and posture.

2. To read (at the pianoforte) a simple accompaniment at sight, and also transpose within the limits of a major second above or below.

3. In passages given by the examiner, to phrase or insert breath marks.

4. Candidates must be prepared to give illustrations of Recitative, Solo singing in Opera or Oratorio, and to sing one song of any one composer in each of the following three groups:—

   (a) BACH, HANDEL, MOZART, BEETHOVEN, SCHUBERT, SCHUMANN.

   (b) FRANZ, BRAHMS, LOEWE, WOLF, STRAUSS, PARRY, ELGAR.

   (c) BALAKIEREFF and DEBUSSY, DELIUS, HOLST, VAUGHAN-WILLIAMS, PETER WARLOCK, RAVEL.

   (d) Any Folk Song from "A Selection of Collected Folk Songs" arr. by C. SHARP and VAUGHAN-WILLIAMS (Novello).

5. Sight Reading Test (Vocal).

DIPLOMA OF ASSOCIATE IN MUSIC

(For Fees, see page 646)

There are two classes of this Diploma.

(A) Teachers' Class.

(B) Performers' Class.

The requirements are:—

Class A—Practical: Highest Grade Local Centre Examinations (see pages 682 and 683).

Theoretical: Highest Grade Local Centre Examinations (see pages 680 and 681).

In addition questions on teaching will be asked.

Class B—Practical—Semi-final Licentiate (Performers' Class) (see pages 652 to 657).

Theoretical: Senior Grade Local Centre Examinations (see page 681).

EXAMINATION FOR CERTIFICATE AS ELEMENTARY SCHOOL MUSIC TEACHER

FEE $10

Candidates must be in possession of a certificate showing they have passed the Intermediate Grade in Pianoforte and Junior Grade in Theory of McGill Local Examinations in Music.

The examination will consist of two parts, (a) Theoretical, and (b) Practical. Both parts are conducted in Staff notation. Any method based upon the Movable Doh principle for Pitch, and using the time-names in teaching Rhythm, is acceptable.

The following books are recommended:—

"The Training of Children's Voices" ..... CARROLL
(Published by Forsyth)

"Aural Culture," Parts I, II, and III ..... MACPHERSON AND READ
(Published by J. Williams)

"The Teaching of Music" ..... WHITE
(Published by Constable)

(a) Theoretical.

The written test will include questions on the principles and practice of teaching (1) Class singing, (2) Ear training, (3) Musical Appreciation, and (4) Management.

(1) The child's voice, sight-singing, notation, songs.

(2) Perception of pitch, musical dictation, rhythmics.

(3) Discriminative listening; aims, material, means, procedure.

(4) Organization, classroom technique, musical defects, standards, attitudes towards the subject, conditions and other factors.

(b) Practical.

NOTE.—Any of the vocal tests may be transposed to a pitch suitable to the candidate's voice.

1. Sight Singing, unaccompanied.

(a) A melody test in the major mode, modulating to the dominant or subdominant key, containing chromatic notes stepwise, and having no shorter notes than a quaver (eighth note). To be sung twice to syllables, and then vocalized to "nee" or "la."

(b) A melody test in the minor mode, containing the raised sixth and seventh. To be sung to syllables, not vocalized.

(c) A rhythm test in simple or compound time, containing pulse-divisions in ordinary use. To be sung on a monotone, once to the time-names and once to a neutral syllable.

2. Ear Training.

   (a) Melody. To write from dictation a short diatonic phrase of about six notes in the major mode, played slowly three times. The key will be named by the examiner, and the pitch established immediately before the test is played.

   (b) Harmony. Distinguish major and minor common chords, root position, played in various ways, p. f, close, extended.

3. Songs.

   (a) Pattern. Sing two (unison) school songs, selected and prepared by the candidate. One must be sung unaccompanied, candidate pitching the key from a given treble C.

   (b) Conducting. Conduct a two-part song as the voice parts are played, correcting errors in time and tune, and give directions as to rendering. Candidate will be given a short time to peruse the composition in advance.

4. Teaching.

   Give a short lesson on some ordinary class-singing topic. Answer questions bearing upon school music.

EXAMINATION FOR CERTIFICATE AS HIGH SCHOOL MUSIC INSTRUCTOR

FEE $15

Candidates must possess the Senior Grade certificate in Pianoforte playing and Senior Grade in Theory of the Local Examinations in Music, McGill.

The examination will consist of two parts (a) Theoretical, and (b) Practical. Staff Notation only is required. Any method based upon the Movable Doh principle of sight-singing is acceptable. A knowledge of the time-names in teaching Rhythm is expected.

The following books are recommended:—

"Aural Culture," Parts I, II and III.....MACPHERSON AND READ
"The Class-singing Teacher".....FIELD HYDE
(Both published by J. Williams)
"Music in the Junior High School".....BEATTIE
(Published by Silver, Burdett)
"Music and the Community."
(Published by the Cambridge University Press)
"An Introduction to Music.....BERNSTEIN
(Published by Prentice-Hall)

(a) Theoretical.

The written paper will include questions on High School music education; the work of the specialist-teacher in music; various musical activities in High Schools; organization, management, etc.

1. School Course.
   (a) Class singing (boys, girls, mixed). Adolescent voices, sight-singing, ear-training, songs.
   (b) Appreciation; aims, material, gradation, presentation.
2. Extension.
   (a) Elective courses; vocal, instrumental, theoretical, Music credits.
   (b) Voluntary music; choirs, orchestra, band, assembly, etc.

NOTE.—Questions will be asked on the subject-matter and on class teaching. An intimate technical knowledge of every instrument which might be included in Section 2 is not expected.

3. General.
   Administration, conditions, problems; classroom management; pupils' attitude, options, individual guidance; musical projects, school interest; other similar matters.

(b) Practical.

NOTE.—Any of the vocal tests may be sung at a pitch convenient to the candidate. Tests in Section 1 are unaccompanied.

1. Sight Singing.
   (a) A melody test in the major mode, modulating, containing fairly easy chromatic intervals, without involved or very rapid rhythmic difficulties. To be sung twice to syllables, and finally to "nee" or "la."
   (b) A melody test in the minor mode, with transition to the relative major key. To be sung twice to syllables, then vocalized.
   (c) A test in rhythm, containing syncopation to any pulse-divisions suitable for part-singing. To be sung on a monotone to a neutral syllable. Two attempts allowed; time-names may be used for the first trial.
2. Ear Training.
   (a) Dictation. The key, time, and pitch being given, write from dictation a short melody containing the sharpened 4th, or flattened 7th, with easy rhythm; or, a test of similar difficulty, in the minor mode containing the leading-note. The test will be played slowly three times.
   (b) Harmony. Identify by ear major and minor chords and dominant 7ths played in various ways (p. f, close, extended, broken).
3. Songs.
   (a) Pattern. Sing two songs, an art song and a folk song, chosen by candidate, while playing the accompaniment.
   (b) Conducting. Conduct a part song as the voice parts are played, correcting errors and giving suggestions as to rendering. An opportunity will be afforded to peruse the composition before the test.
4. Keyboard Harmony.
   Ability to play short progressions, using diatonic chords and their inversions.
5. Teaching.
   Demonstrate points of teaching, and discuss questions bearing upon High School music.

NOTE.—In addition to the text-books mentioned above, the following are also recommended for reading:—

"A Child's Path to Music," by E. Allen (Forsyth).

"Music and Its Appreciation," by S. Macpherson (J. Williams).

SCHOOL MUSIC COURSE

A course in the principles and practice of School Music is offered. This course is designed for the training of specialist-teachers in Elementary and High Schools. The subjects include organization, management, methods, sight-singing ear-training, voice, conducting, appreciation, and other matters connected with teaching in schools.

LOCAL CENTRE EXAMINATIONS IN MUSIC

(For Centres with Hon. Local Representatives, see pages 676 to 679)

Recognizing the necessity of helping to raise the standard of musical education in Canada, and at the same time to bring the influence of competent examiners to bear upon instruction, McGill University holds local examinations throughout the Dominion. In view of the fact that it grants Degrees in Music and Diplomas of Associate and Licentiate in Music, the University extends its field of work by means of these local examinations, which are preparatory to those for Degrees and Diplomas.

The Examiners are appointed by the Board of Governors of the University, the Chairman of the Examining Board being Mr. Douglas Clarke, Dean of the Faculty of Music and Director of the Conservatorium.

GENERAL REGULATIONS

1. All fees must be paid in advance direct to the Secretary of McGill University Conservatorium of Music, 677 Sherbrooke Street West, Montreal, who will supply forms of entry. These can also be obtained from the local hon. representatives or local hon. secretaries. (See pages 676 to 679.)

2. A local representative of McGill University will supervise the conduct of the theoretical examination at each centre. All papers will be sent to McGill University itself.

3. Every certificate gained by candidates in any of the public examinations will bear the imprimatur of McGill University.

4. The Principal of a school may arrange with the Secretary to send an examiner to report on the musical education gained at the school. No individual certificates will be awarded in this case, but merely a collective detailed report drawn up by the examiner and sent to the Principal of the school. (See page 720.)

5. Similar arrangements may be made with regard to Class Singing. (See page 721.)

6. In case of a candidate being prevented by serious illness from attending any examination, the Secretary is authorized, on receipt of a medical certificate, which must, however, reach him at least five days before such examination, to transfer a candidate to the next examination without further fee.

7. Examinations will be arranged by the Secretary when required and new centres formed.

ADVICE TO TEACHERS AND CANDIDATES

1. Candidates are advised not to attempt too high a grade when first entering for the local examinations, which are arranged in a systematic course of progressive grades, beginning with the Preparatory grade and leading on through the Diploma examinations for Associate and Licentiate of Music to that for the Degree of Mus.B.

2. Teachers as well as candidates are urged to regard the particular studies and pieces selected for examination in any one grade as indicating the degree of difficulty, and not to confine their attention for a whole year to the preparation of two or three examination pieces.

3. In preparation, teachers and pupils should use music of a lower grade at the beginning of the winter, and should not begin too early with the actual pieces selected for examination at the end of the session. Lack of interest often ensues from the monotony entailed by candidates concentrating their whole attention on the examination book for too long a period.

REGULATIONS FOR LOCAL CENTRE EXAMINATIONS FOR CERTIFICATES

1. Theory examinations are held throughout the Dominion about May 1st. No definite date is assigned but the examinations will be held during the first week in May. Due notice will be given to the Local Hon. Secretaries. Candidates wishing to take an examination in a practical subject in the same year as the theoretical examination, if unsuccessful in the latter, can still proceed to the practical examination, and if they satisfy the examiner or examiners in this, they must present themselves at a supplemental theoretical examination held later in the same year, which, if they pass, entitles them to receive the certificate for the practical examination. A special charge for this supplemental examination is found under fees on page 680.

2. Practical examinations are held during May, June and July.

3. For both theoretical and practical local examinations, forms of application, duly filled in by the candidate, and accompanied by the examination fee, *must reach the Secretary in Montreal on or before April 1st, 1944.*

4. Certificates will be awarded to successful candidates in both theoretical and practical subjects.

5. These certificates do not entitle the holders to append any letters to their names.

6. The maximum number of marks in each practical and theoretical subject is 100, of which 60-69 is "Pass", 70-79 "Honours"; 80-89 "Distinction", 90-94 "High Distinction", 95-100 "Very High Distinction".

7. No special text.books are prescribed for theoretical examinations, and no particular method or style is specified for practical examinations. For the convenience of teachers and candidates the University publishes, in separate books for each grade, the studies and pieces required for the Pianoforte Examinations, which can be obtained direct from the General Secretary or from various local music dealers.

8. Candidates presenting a study or piece not prescribed by the current syllabus, run a risk of being disqualified.

9. Candidates entering for practical subjects must, in all grades except the three last (Elementary, Primary and Preparatory), work a theory paper of the preceding lower grade before the practical certificate will be released.

10. Only one candidate at a time is allowed to be in the examination room for practical examinations.

11. The accompanist for all examinations, where one is needed, is allowed to be in the examination room only to accompany the songs and pieces.

12. The examiner's decision is final, and cannot be reconsidered.

13. The possession of certain certificates granted by other institutions may exempt the holder from the necessity of taking the Theoretical part of the Local Examinations. In making application for exemption the holder of such certificates must give explicit information to the General Secretary at least one month before the date of the examination, and be prepared to produce the original certificate, if required.

14. The possession of certain certificates gained in the Local Examinations will entitle the holders to claim exemption from certain parts of the examinations for the Diplomas of Associate and Licentiate in Music, should they at a later date decide to proceed to the higher examinations for those diplomas.

LOCAL CENTRES

The following places have been adopted as centres for public examinations in Music; others will be added as necessity requires, but in all cases the establishment of a centre depends upon a sufficient number of candidates applying. All examinations for Certificates in the Local Grades, as well as some of those for Degrees and Diplomas, are held at these centres.

Amherst.....Hon. Representative: The Rev. H. C. Olsen.
Hon. Secretary: Mrs. Geo. R. Shiers, 35 Robie St.

Assiniboia.....Hon. Representative: The Superintendent of Schools.

Aylsham.....Hon. Representative: The Rev. L. E. Anderson.
Hon. Secretary: Mrs. R. S. Valleau, Moose Range, Sask.

Brandon.....Hon. Representative: Principal of Brandon College Institute.

Brockville.....Hon. Representative: The Rev. J. G. Sparling.
Hon. Secretary: Mrs. M. MacOdrum, West Pine St.

Calgary.....Hon. Representative: A. Calhoun, Esq., City Librarian, Public Library.

Campbellton.....Hon. Secretary: Miss Laura Alford.

Campbell's Bay.....Hon. Representative: Rev. E. T. MacNally.
Hon. Secretary: Sister Philippe, St. Joseph's Convent.

Chapeau.....St. Joseph's Convent.

Charlottetown.....Hon. Representative: H. H. Shaw, Esq., B.Sc.
Hon. Secretary: Miss E. Lillian McKenzie, Mus.B. (McGill), 85 Rochford Street.

Cookshire.....Hon. Representative: The Rev. W. T. Gray.
Hon. Secretary: Miss E. J. Ball.

Cranbrook.....Hon. Representative: Principal of the High School.
Hon. Secretary: Mrs. D. Finlayson.

Edmonton.....Hon. Representative:

Hon. Secretary: Mrs. O. J. Walker, L.Mus. (McGill), 11103 Saskatchewan Drive.

Fernie.....Hon. Representative: Angus McPhee, Esq.
Hon. Secretary: Miss S. E. West.

Fort Qu'Appelle.....Hon. Representative: W. H. Thompson, Esq.

Fredericton.....Hon. Representative: The Very Reverend Spencer C. Gray, The Deanery.
Hon. Secretary: W. J. Smith, Esq., A.R.C.O., 679 Union St.

Glace Bay.....Hon. Representative: The Rev. J. MacDonald.
Hon. Secretary: Mrs. A. Ferguson.

Gladstone.....Hon. Representative: Dr. E. H. Whelpley.
Hon. Secretary: David B. McHardy, Esq., 200 Manderville St., Winnipeg.

Granby.....Hon. Representative: Dr. G. A. Runnells, 35 Dufferin Street.
Hon. Secretary:

Halifax.....Hon. Representative: The Rev. S. H. Prince, University of King's College.
Hon. Secretary: Miss Ada Hoyt, 3 College St.

Indian Head.....Hon. Representative: Dr. F. W. Hart.

Kamloops.....Hon. Representative: Mrs. P. H. McCurrach, B.A.

Kentville.....Hon. Representative: The Rev. A. A. McLeod.
Hon. Secretary: Mrs. J. Stanton Rockwell.

Kerrobert.....Hon. Representative: R. L. Hanbidge, Esq., K.C.
Hon. Secretary: Miss Gladys Nault.

Kimberley.....
Hon. Secretary: Mrs. T. A. Martin.

Lethbridge.....Hon. Representative: A. J. Watson, Esq., Supt. of Schools, Central School.
Hon. Secretary: Miss Jennie King, Coaldale, Alta.

Liverpool.....Hon. Representative: The Rev. J. M. C. Wilson.
Hon. Secretary: Miss Evelyn Rieser, L.Mus. (McGill).

Maxville.....Hon. Secretary: Miss Netta McEwen, Box 294.

Melfort.....Hon. Representative: J. N. Gale, Esq., P.O. Box 280.
Hon. Secretary:

Moncton.....Hon. Representative: The Rev. J. A. Ramsay, D.D., The Manse, Alma St.
Hon. Secretary: Miss Marion Murray, 185 Mountain Road.

Moose Jaw.....Hon. Representative: S. R. Stephens, Esq., City Librarian, Public Library.
Hon. Secretary: Academy of Sion.

Nelson.....Hon. Representative: H. E. Dill, Esq., 418 Mill St.

New Glasgow.....Hon. Representative: Mrs. H. R. Murphy, 251 Brookside Avenue.
Hon. Secretary:

Ottawa.....Hon. Representative:
Hon. Secretary: Miss L. Barrigar, L.Mus. (McGill), 173 Cooper St.

Peterboro.....Hon. Representative: John T. Donaldson, Esq., 223 Crescent St.
Hon. Secretary: F. G. Mann, Esq., 199 London St.

Pictou Academy.....Hon. Representative: G. W. MacKenzie, M.A., B. Paed.
Hon. Secretary: Miss Eva Skinner.

Plattsburgh.....
Saranac Lake.....
Ogdenburg.....
Chazy.....
} Hon. Representative: J. A. McHattie, Esq.

Malone.....Hon. Secretary: Miss Isabelle Douville, 117 East Main Street.

Quebec.....Hon. Representative: Rev. S. Radley-Walters, L.S.T., St. Peter's Church.
Hon. Secretary: Miss Edith Latter, L.Mus. (McGill), 49 Ninth St., Limoilou, P.Q.

Regina.....Hon. Representative: The Rev. A. D. Mackenzie, 2124 Rae St.
Hon. Secretary: Mrs. J. Radcliffe Suart, L.Mus. (McGill), 1416 Rae St.

Revelstoke.....Hon. Representative: A. E. Miller, Esq., Box 129.
Hon. Secretary: Miss Sheila Dickey. Box 132.

Rothesay.....Hon. Secretary: Miss A. Davidson, L.Mus. (McGill).

St. John.....Hon. Representative: The Rev. C. Gordon Lawrence, M.A., 50 Orange St.
Hon. Secretary: Miss Eileen Gillis, L.Mus. (McGill), Red Head, P.O.

Saskatoon.....Hon. Representative: W. A. Gilchrist, Esq., Canada Bldg.
Hon. Secretary:

Sherbrooke.....Hon. Representative: W. O. Rothney, Esq., M.A., Ph.D., Bishop's University, Lennoxville.
Hon. Secretary: Wright W. Gibson, Esq., M.A., High School.

Stellarton.....Hon. Secretary: L. N. Miller, Esq., L.Mus. (McGill), Box 44.

Sudbury.....Hon. Representative: Dr. J. L. Shappert.
Hon. Secretary: Miss M. R. Perreault, 52 Riverside Drive.

Sutton.....Hon. Representative: The Ven. Archdeacon H. Charters, B.A., L.Th.
Hon. Secretary: Miss Gertrude Gingras.

Sydney Mines.....Hon. Representative:
Hon. Secretary: H. A. Briers, Esq., Box 438.

Sydney.....Hon. Representative: G. G. Campbell, Esq., B.A., Sydney Academy.
Hon. Secretary: A. J. McKnight, L.Mus. (McGill), Esq., 63 Rockdale Ave.

Timmins.....Hon. Representative: The Rev. W. Linder.
Hon. Secretary:

Truro.....Hon. Representative: C. G. Mosher, Esq., M.A., LL.D.
Hon. Secretary: Miss Bertha Dunn, L.Mus. (McGill).

Vancouver.....Hon. Secretary: C. E. Findlater, Esq., Fairfield Bldg., 445 Granville Street.

Victoria & Vancouver Island Hon. Secretary: R. H. Cox, Esq., L.Mus (McGill), 1462 Fort Street.

Winnipeg.....Hon. Representative: John Parton, Esq., 356 Main St.
Hon. Secretary: Miss Kathleen Robson, Mus. B. (McGill), 321 Dromore Ave. (Absent on war service.)
Acting Secretary: Miss Peggy Morrison, 528 Kingsway.

Wolseley.....Hon. Representative:
Hon. Secretary: Mrs. Anna P. Thomson.

Yorkton.....Hon. Representative: E. A. Crosthwaite, Esq., Principal, Simpson School, Yorkton, Sask.
Hon. Secretary: Mrs. R. H. Johnston, L.Mus. (McGill), 155 First Ave.

FEES FOR LOCAL EXAMINATIONS

1.—Theory of Music (when taken as a Special Subject)

Highest Grade	$9.00
Senior Grade	5.50
Intermediate Grade	4.00
Junior Grade	3.00
Elementary Grade	2.00

2.—Practical Subjects

Highest Grade, *including fee for Senior Theory*	$12.00
Senior Grade, *including fee for Intermediate Theory*	10.00
Intermediate Grade, *including fee for Junior Theory*	7.50
Junior Grade, *including fee for Elementary Theory*	6.00
Elementary Grade	3.50
Primary Grade	2.50
Preparatory Grade	1.00
Duet Playing examination covering both entrants	1.50

3.—Supplementary Theoretical Examination

Fee for three highest grades (each paper)	$2.00
Fee for the two lowest grades	1.50

4.—General School Examination

Fee, $20.00 for first hour and $10.00 for each succeeding hour. (One examiner.)

5.—Class Singing Examination

Fee, $10.00 per class. (One examiner)

LOCAL CENTRE EXAMINATIONS IN THEORETICAL MUSIC

These examinations are divided into five grades, and Certificates in each grade will be awarded to successful candidates.

HIGHEST GRADE.—Harmony in three and four parts, up to chords of the major and minor dominant ninth and secondary sevenths, including the use of suspensions and passing notes (harmonizing of melodies and figured and unfigured bass, the completing of a harmonic sentence from a given pattern); the writing of a short passage introducing specified chords. The candidate will be required to take down from dictation a short and simple melody which will be played three times;

Counterpoint in two parts; Analysis, together with elementary knowledge of form, questions being based upon the candidate's previous study of the pieces given in this year's Highest Grade, List A, Pianoforte Book (a copy of which will be provided for the candidates in the examination room), and the outlines of musical history. The examinations in this grade consist of two papers. One paper deals with Harmony and Counterpoint, and the other with History of Music, and Analysis and Form.

SENIOR GRADE.—More advanced questions on the work specified for the Intermediate Grade. A knowledge of musical ornaments or graces and of syncopated time, analysis of given chords or passages and the harmonization of an easy melody and of an unfigured bass. Candidates will also be required to write an original tune of from four to eight bars and indicate the harmony by figuring and directs; to add a contrasted tune to one given, and to *add* phrase marks. *Care should be taken, in writing the tune, to avoid the interval of an augmented 4th and to obtain a judicious mixture of conjunct and disjunct movement. In harmony questions generally candidates should consider the possibility of introducing the supertonic chord.*

N.B.—Special attention is paid by the examiners to the working of the harmony questions. A definite percentage of marks is required in these questions in order to pass.

INTERMEDIATE GRADE.—A knowledge of the C clefs, the transposition of a given passage, the barring (and pre-fixing of time and key signatures) of given passages and (in both original and inverted positions) triads, common chords, chords of the dominant seventh with resolution on the tonic chord and chords of the augmented 6th. In addition to the above, the harmonization by means of simple chords in three or four parts of short phrases with either melody or figured or unfigured bass or both is given. Candidates are required to write a tune of their own of from four to eight bars and add another to it, so as to produce a piece of flowing 2-part writing. They are also required to analyse the chords in a given passage, and point out errors of part-writing or poor chord construction in a given passage.

N.B.—Special attention is paid by the examiners to the working of the harmony questions. A definite percentage of marks is required in these questions in order to pass. (See special note regarding melody and harmony questions under Senior Grade.)

JUNIOR GRADE.—Transposition from treble to bass and vice versa, the more extreme key signatures and scales, marks of expression, including the translation of Foreign terms into English and vice versa, a knowledge of triads, technical names of notes for scale degrees, intervals and their inversion, grouping of incorrectly grouped notes according to the time signature used.

ELEMENTARY GRADE.—The following are the requirements:—A knowledge of staves, G and F clefs, notes, dots, rests, leger lines, time-signatures, key signatures (major and minor), writing scales, the more common marks of expression, easy intervals, and the writing of two simple tunes, each of two bars, on a given pattern; the tunes should have some character. Completing bars with notes or rests.

N.B.—Specimens of examination papers used for all Grades during the last ten years can be obtained from the Secretary of McGill University Conservatorium at 10 cents per copy of each grade.

Special Note:—Leaflets have been specially prepared as a guide on certain points for the use of teachers preparing candidates for the theoretical examinations. These will gladly be sent to anybody interested.

LOCAL CENTRE EXAMINATIONS FOR CANDIDATES IN PRACTICAL SUBJECTS

PIANOFORTE

See requirements and table of marks at the end of this section on Pianoforte regulations.

Official books, containing the pieces required for the Pianoforte Examinations in all the seven grades of the local examinations, can be obtained, either from the Secretary, McGill University Conservatorium of Music, Montreal, or from any music dealer in the Dominion.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

HIGHEST GRADE

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

Major, minor (both forms) and chromatic, in all keys, in similar and contrary motion, at the octave, third, sixth or tenth, with staccato or legato touch, and beginning from either the highest or lowest note, as may be required; major and minor scales also in similar motion in double octaves in all keys.

2. *Arpeggios.*

Common chords, dominant 7ths and diminished 7ths, in all positions at the interval of an octave only, starting on the highest or lowest note with staccato and legato touch.

NOTE:—Scales and arpeggios should be played at as fast a speed as is consistent with clarity and accuracy and without group accentuation.

3. *Ear Tests.*

Candidates must be able to name, either by interval or by note (as they may prefer), any diatonic or chromatic interval above or below any given note which may be struck by the examiner; to say whether a common chord is major or minor, and to recognize the chord of the dominant 7th in its root position when it is struck.

A rhythmical test is also given (which the candidate is required to tap or sing) as well as a melodic test which the candidate must hum, sing, or play on the piano after the examiner.

4. *Reading at Sight.*

Candidates must be prepared to read a test which will be of about the same difficulty as the pieces set for prepared work in the Intermediate Grade.

5. *Prepared Work.*

The whole of either List A or List B published in separate books, and referred to on page 682, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music, in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

Questions will be asked on the form, modulations, and marks of expression, etc., found in the pieces. In connection with the questions on form candidates are recommended to read Macpherson's "Form in Music" (published by Joseph Williams).

Senior Grade

Before a certificate can be issued to a successful candidate for this examination the Intermediate Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

   All scales in similar motion through four octaves and contrary motion through two octaves, including chromatic scales, played legato at the rate of about 4 notes to M.M. 120, and played staccato at about M.M. 90, beginning with the highest or lowest note as required and at the octave only. Also all scales in 3rds in similar motion only. All scales must be played forte or piano as required.

2. *Arpeggios.*

   All major and minor common chords through four octaves, also dominant and diminished 7ths, time to be about 4 notes to M.M. 100 played legato and M.M. 72 played staccato. These arpeggios. also to be played in the inversions if required, at about 4 notes to M.M. 72. All arpeggios must begin from the highest or lowest note as required and be played forte and piano.

3. *Ear Tests.*

   Candidates must be able to name diatonic or chromatic intervals within the limits of an octave above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. Candidates will be required to sing or hum *any one* of three notes played together, and also a short phrase played by the examiner.

4 *Reading at Sight.*

   The music will not be more difficult than the pieces set for the Junior Grade.

5. *Prepared Work.*

   The whole of either List A or List B published in separate books, and referred to on page 682, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

   Questions will be asked as to the key, time and meaning of signs used in the pieces prepared by the candidate. In addition an intelligent musical understanding of the pieces is expected such as simple elements of construction.

Intermediate Grade

Before a certificate can be issued to a successful candidate for this examination, the Junior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

Major and minor (both forms) in all keys, also chromatic scales through four octaves, each hand separately and both together in similar motion, beginning either on the lowest or highest note legato and staccato, speed to be about 4 notes to M.M. 92 legato and M.M. 72 staccato, piano and forte.

2. *Arpeggios.*

All major and minor common chords, with inversions, through four octaves, separately and together, beginning from either the highest or lowest note.

3. *Ear Tests.*

To name by interval or note (as candidates prefer), with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. Candidates will be required to hum or sing a short phrase played by the examiner.

4. *Reading at Sight.*

A test consisting of music of about the same difficulty as the pieces set for the Elementary Grade.

5. *Prepared Work.*

The whole of either List A or List B, published together in one book, and referred to on page 682, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

Questions will be asked as to the time, key and meaning of signs used in the pieces prepared by the candidates.

Junior Grade

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Scales.*

   Major and minor (both forms, harmonic and melodic, but the latter only hands separately) and chromatic scales in similar motion only, in all keys through two octaves, beginning from either highest or lowest note and played forte or piano with separate hands and both hands as required, at a speed of about 4 notes to each M.M. 80.

2. *Arpeggios.*

   Extended arpeggios of common chords in all major and minor keys in root position through two octaves, each hand separately and together.

3. *Ear Tests.*

   To name by interval or note (as candidates prefer) with middle C, G, or F as given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner.

4. *Reading at Sight.*

   A test is set of which the difficulty will be similar to that of the pieces in the Primary Grade.

5. *Prepared Work.*

   The whole of either List A or List B, published together in one book and referred to on page 682, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

   Questions will be asked as to the various marks of expression and as to the key and time of the various prepared pieces.

Elementary Grade

Candidates are not required to take any written theoretical examination before presenting themselves for this examination.

1. *Scales.*
   The major scales of C, G, D, A, F, B flat and E flat, and their relative minors (harmonic form only), with separate hands and both hands through two octaves, beginning with highest or lowest note, also piano or forte, as required, at a speed of about two notes to each M.M. 88.

2. *Arpeggios.*
   Major and minor, the same keys as the above scales, each hand separately, through two octaves, in root form only.

3. *Ear Tests.*
   With any note chosen by the examiner about the middle of the keyboard as the lowest note, to distinguish between the major or minor 3rd, perfect 5th and perfect octave from that note.

4. *Reading at Sight.*
   Two easy tests will be given, one for the right hand alone and one for the left hand alone.

5. *Prepared Work.*
   The whole of either List A or List B, published together in one book, and referred to on page 782, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*
   Two or three easy questions will be asked on the marks of expression, key and time of the pieces prepared, also as to the values of the notes and rests and the signatures.

Primary Grade

Candidates are not required to take any written theoretical examination before presenting themselves for this examination.

1. *Scales.*
   Major scales, C, G, D, F and B flat, and their respective relative minors, in harmonic form only, with one hand at a time through two octaves, beginning with the lowest note at a speed of (a) one note to each M.M. 100, (b) two notes to each M.M. 100.

2. *Arpeggios.*
   Major form only, 2 octaves, starting from the lowest note, hands separately, in root form only in keys of C, G, D, F and B flat.

3. *Prepared Work.*

The whole of either List A or List B, published together in one book, and referred to on page 682, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

4. *Questions.*

A few questions will be asked on the notes and rests found in the prepared pieces.

Marks

The following system is adopted:—

	Primary	Elementary Junior and Intermediate	Senior and Highest
Scales	13	13	15
Arpeggios	13	13	15
Accuracy as regards Notes and Rests and correct system of Fingering	14	14	..
Tempo (including in the higher grades, if piece demands it, Tempo Rubato)	10	10	..
Expression (including in the higher grades use of pedals)	10	10	12
Touch, Rhythm, Phrasing and Accent ind Interpretation	12	12	28
Reading at Sight	..	12	12
Ear Tests	..	10	10
Questions	6	6	8
Proper position of hands and arms	12	..	..
Movement of fingers	10	..	..
	100	100	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

Preparatory Grade

This is now the earliest examination which it is possible to take in the Local Centre Examinations. There is no theoretical examination.

The candidates will be required to play:—

(1) Short exercises, for separate hands, to illustrate legato playing and phrasing.

(2) Two or three short pieces for both hands, working independently (separately).

(3) Scales C.G.F., major form only, hands separately, two octaves.

(4) Ear Tests.

This examination is designed to meet the needs of beginners studying privately as well as those taking the first year course in Pianoforte Class Instruction in schools.

All the music, with specimen ear tests, is published by McGill University and can be obtained in one volume, price 15c.

MARKS

Scales	15
Exercises	15
Pieces	40
Ear Tests	30
	100

Leaflets showing alternative requirements based on the Oxford Piano Course and the Kammerer (1st and 2nd years) may be obtained from the Secretary.

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

EXAMINATION IN PIANOFORTE DUET PLAYING

In order to encourage the mutual making of music and to stimulate the interest of young performers, examinations are held in pianoforte duet playing in the Elementary Grade. The requirements are:—

(1) The playing of two or three simple duets of Elementary Grade difficulty.

(2) The major scales of G, F and D played as duets through two octaves. The players will play together one hand at a time (starting two octaves apart) and two hands together (starting one octave apart).

(3) Ear Tests. Simple rhythmical tests will be given. For instance, a tune of one bar will be played and the candidates will tap (together) the rhythm. The examiner will then play a short and easy passage having one chord to a beat and the candidates will be required to clap the beats during the playing. (The test will be played over first.) Candidates will also be required to hum or sing a passage of about 6 notes, equal in length, which will be played over three times on the pianoforte.

(4) Questions on the notes and rests will be asked, also on the times and keys of the prepared pieces.

(5) Sight-reading. Candidates will be required to read a very simple duet, one hand only to each part.

Fee (covering both entrants) $1.50. Only one application (with names, etc., of both candidates) need be sent in.

MARKS FOR DUET PLAYING EXAMINATION

Scales	20
Accuracy as regards Notes and Rests and correct system of fingering; sight-reading	30
Touch, Rhythm, Phrasing, Accent and Expression	20
Ear Tests	20
Questions	10
	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

VIOLIN

HIGHEST GRADE

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales* (from memory).

All major and both forms of all minor scales (three octaves). The chromatic scales of C (two octaves) beginning on the G string and E beginning on the D string. Slurred and detached bowing.

2. *Arpeggios.*

In all major and minor keys through three octaves, one note to a bow, and slurred (one bow ascending and one descending).

3. *Ear Tests.*

Candidates must be able to name, either by interval or by note (as they may prefer), and diatonic or chromatic intervals which may be struck by the examiner above or below the given note; to be able to say whether the common chord is major or minor, and to recognize a chord of the dominant 7th in its root-position when it is struck (on the pianoforte). A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the violin after the examiner.

4. *Reading at Sight.*

Candidates must be able to read a test which will be of about the same difficulty as the pieces set in the Intermediate Grade.

5. *Prepared Work.*

(a) Three Studies:—Candidates may choose any one of Kreutzer's Etudes between Nos. 23 and 42 inclusive, and also any one of Rode's Caprices and also any one of Fiorillo's Etudes.

(b) Concerto No. 19.....KREUTZER
or Concerto in E minor.....NARDINI
or La Folia.....CORRELLI-LÉONARD
or Sonata in E minor.....VERACINI

(c) Sixth Partita in E major, for violin alone.....BACH
(First movement only)

6. *Questions.*

Questions will be asked on the form, modulation, and marks of expression in the prepared work.

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales* (from memory).

B flat major and G major and
B flat minor and G minor (both forms) through three octaves. Slurred and detached bowing.

2. *Arpeggios.*

Three octaves in the keys of B flat major and B flat minor and G major and minor.

(a) One note to each bow.

(b) Three notes slurred to each bow.

(c) Six notes slurred to each bow.

3. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals within the limits of an octave, above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate will be required to tap or sing) as well as a melodic test which the candidate must hum, sing, or play on the violin after examiner.

4. *Reading at Sight.*
The music given will not be of greater difficulty than the pieces set for the Junior Grade.

5. *Prepared Work.*
Studies.
No. 18, Thirty Special Studies, Op. 36 ..... MAZAS
No. 10 ..... KREUTZER
No. 15 ..... FIORILLO

Pieces.
Concerto No. 23, First or Last Movement ..... VIOTTI
or Sonata in G minor ..... TARTINI
or any one of Six Sonatas ..... HANDEL

6. *Questions.*
Questions will be asked as to the key, time, and meanings of signs used in the prepared work.

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must be passed (*See page 681*).

1. *Scales* (from memory). See footnote on page 693.
G major and G minor and A major and A minor through 3 octaves. Minor scales to be played in both forms. Detached and 3 notes to a bow.

2. *Arpeggios.*
Three octaves in the following keys:—G major and minor, A major and minor.
(a) One note to each bow.
(b) Three notes slurred to each bow.
Interchange of position must be clearly shown in playing any of these arpeggios.

3. *Reading at Sight.*
A test consisting of music of about the same difficulty as pieces set for the Elementary Grade.

4. *Ear Tests.*
To name by interval or note (as candidates prefer), with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the violin after the examiner.

5. *Prepared Work.*

Studies.

No. 7 of Thirty Special Studies, Op. 36.....MAZAS
Nos. 21 and 29, Op. 20.....KAYSER

Pieces.

Second Concertino, Op. 14 (published by Schott)....R. ORTMANS
or Concertino, Op. 31, 1st or Last Movement.....SITT
or Concerto No. 3, Op. 12, 1st Movement.....SEITZ
or Concerto No. 4, 1st Movement.....SEITZ
or Concerto in A minor.....VIVALDI

6. *Questions.*

Questions will be asked as to the time and the meaning of signs used in the pieces prepared.

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Scales* (from memory). See footnote.

Two octaves of the following:—

C major and minor, 2nd position. B flat major and minor in 2nd position. D major and minor in 3rd position and in 4th position. Minor scales to be played in both forms.

(a) One note to each bow.
(b) Two notes slurred to each bow.

2. *Arpeggios.*

Two octaves in the following keys: G major and G minor, D major and D minor.

(a) One note to each bow.
(b) Three notes slurred to each bow.

Interchange of position must be clearly shown in playing any of these arpeggios.

3. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G, or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the violin after the examiner.

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*N.B.—Ritter's Violin Scale Book may be used in preparation for this grade as well as those below it.

4. *Reading at Sight.*

An easy test is given about the difficulty of the pieces in the Primary Grade.

5. *Prepared Work.*

Studies.

Nos. 9, 12, Op. 20 ..... KAYSER
No. 42, Op. 32, Book 3 ..... SITT

Pieces.

First or last movement, Sonatina No. 3 ..... R. HOFMAN
(Carl Fischer)

or Allegro entusiastico ..... PUGNANI-MOFFAT
(Carl Fischer)

or Fragment of a Sonata ..... DANCLA
(Carl Fischer)

or Melody ..... LULLY-SPALDING
(Carl Fischer)

6. *Questions.*

Questions will be asked as to the various marks of expression and as to the key and the time of the prepared pieces.

ELEMENTARY GRADE

No written examination in theory need be passed by candidates before entering for this examination.

1. *Scales* (from memory). See footnote on page 693.

G, A and B (major and minor) in two octaves, 4 notes to each bow.

2. *Arpeggios.*

G major and G minor, in first position only, through two octaves.
(1) One note to the bow.
(2) Three notes to the bow.
(Minor Scales in melodic form only.)

3. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner.

4. *Reading at Sight.*

A very easy piece is given.

5. *Prepared Work.*

Studies.

No. 1, Op. 20 (played with four different bowings).....KAYSER
No. 7, Op. 20.....KAYSER
Concertino in first position, Op. 93.....HANS SITT
First or last movement.
or Concertino, No. 5—Op. 22.....SEITZ
or Concertino in B minor, Op., 35 (in first position)....RIEDING
or any two of "Four Easy Pieces".....DUNCAN-RUBBRA
(Oxford Univ. Press)

6. *Questions.*

Questions will be asked on notes, rests, marks of expression, time of pieces and studies, and on key signatures.

PRIMARY GRADE

No written examination in theory need be passed by candidates before entering for this examination.

1. *Scales* (from memory). See footnote on page 693.

Scales in G major and minor, and A major and minor in two octaves, also D major and minor and F major in one octave, one note to each bow.
(Minor Scales in melodic form only.)

2. *Prepared Work.*

Studies.

Violin Method, Op. 6, Part 2, No. 13.....SEVČIK
or Exercise No. 2, Op. 74, with different bowings.....WOHLFARTH
Pieces.
Theme with Variations, Op. 57.....PAPINI
or Prière, Op. 22, No. 4 (Bosworth Ed.).....RIEDING
or Mazurka.....HERBERT KINGSLEY
or Marche Militaire.....ADAM CARSE
(Published by Joseph Williams)
or Valsette, Op. 33, No. 2.....JOSEPH BLOCH
or A Bed-time Song.....GORDON JACOB

3. *Questions.*

Questions will be asked on the notes and rests found in the prepared pieces.

4. *Ear Tests.*

With any note chosen by the examiner about the middle of the keyboard as the lower note, to distinguish between the major or minor 3rd, perfect 5th, and perfect octave from that note.

Marks

In all the Grades with the exception of the Primary, the following system of marking is adopted for Violin, Viola and Violoncello:—

Posture	5
Scales and Arpeggios	12
Technical Studies and Exercises	10
Bowing	8
Accuracy of Notes and Rests	8
Tone Production	10
Intonation, including Tuning	8
Rhythm, Phrasing, Accent and Gradation of Tone	10
Tempo (including in higher grades, if piece demands it, Tempo Rubato)	5
Questions	6
Ear Tests	10
Sight Reading	8
Total	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

In the Primary Grade, Sight Reading is not required; the marks allotted to this are distributed as follows:—

Accuracy of Notes and Rests	10 instead of 8
Rhythm, Phrasing, Accent and Gradation of Tone	14 instead of 10
Strictness of Time and Choice of Tempo	7 instead of 5

In every other respect the marking is as in above schedule.

VIOLONCELLO

Highest Grade

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

   Major and minor scales in all keys through three octaves (minor scales in melodic form only).

2. *Technical Studies.*

   Nos. 2 and 21 Exercises for Violoncello.....J. L. Duport
   (a) Four notes slurred to each bow.
   (b) Spiccato, one note to each bow.

3. *Ear Tests.*

Candidates must be able to name either by interval or by note (as they may prefer), any diatonic or chromatic interval which may be struck by the examiner above or below the given note; to say whether the common chord is major or minor, and to recognize a chord of the dominant 7th in its root position, when it is struck (on the pianoforte). A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the 'cello after the examiner.

4. *Reading at Sight.*

Candidates must be able to read a test, which will be about the same difficulty as the pieces set in the Intermediate Grade.

5. *Prepared Work.*

Nos. 32, 33, 35 and 36 from Progressive Studies for the Violoncello.....WHITEHOUSE

or

Study No. 7 (Litolff Ed.).....J. L. DUPORT

and

Study Nos. 1, 4 and 6 (Berners Ed. No. 102a).....A. H. EARNSHAW

Pieces.

Andante from Sonata in A minor.....BOELLMANN

Allegro appassionato.....C. SAINT-SAENS

or

Sonata in G major (Ed. Simrock).....J. B. BREVAL

6. *Questions.*

Questions will be asked on the form, modulation, and marks of expression in the prepared work.

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade local theoretical examinations must have been passed. (*See page 681*).

1. *Scales* (from memory).

All major and minor scales compass two octaves (minor scales in melodic form only).

(a) Detached.

(b) Slurred, 2, 4 or 8 notes to a bow.

2. *Technical Studies.*

Studies Nos. 5 and 7 (Berners Ed. No. 102a).....A. H. EARNSHAW

or

Any Two Studies.....WILLEM WILLERKE

3. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals, within the limits of an octave, above or below, any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the 'cello after the examiner.

4. *Reading at Sight.*

The music given will be about the same difficulty as the pieces set for Junior Grade.

5. *Prepared Work.*

Nos. 28, 29, 30 and 31 from Progressive Studies for the Violoncello ..... WHITEHOUSE

Any two of "Six Airs arranged for 'cello" ..... J. BARBIROLLI
(Oxford University Press)

Berceuse, Op. 14 (published by Fromont) ..... DUNKLER

Berceuse (published by Hawkes & Son, London) ..... W. ALCOCK

Elegie ..... G. FAURÉ

6. *Questions.*

Questions will be asked on the form, modulation and marks of expression in the pieces prepared.

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales* (from memory).

In all the major and minor keys through two octaves.

(a) Detached.

(b) Slurred, two notes to a bow.

2. *Ear Tests.*

To name by interval or note (as candidates prefer) with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the 'cello after the examiner.

3. *Reading at Sight.*

A test consisting of music about the same difficulty as the pieces set for the Elementary Grade.

4. *Prepared Work.*

Studies.

Any two advanced studies.....DOTZAUER
Nos. 1 and 2 (Litolff Edition, No. 1520).....MERK
No. 9—Exercises (Litolff).....DUPORT
or Nos. 19, 20, 22, 24, 25 and 27 from Progressive Studies for the Violoncello.....WHITEHOUSE

Pieces.

Melodie, Op. 14 (Augener Edition No. 7709).....W. H. SQUIRE
Aubade Humoresque, Op. 39, No. 2.....ROBERT C. MARTIN
(Published by Leduc, Paris)
L'Abeille.....SCHUBERT
or any two of 12 Easy Pieces, Op. 4.....ARNOLD TROWELL
(Schott)

5. *Questions.*

Questions will be asked as to the time, key, and meaning of signs used in the pieces prepared by the candidates.

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Scales* (from memory).

The major scales of E, A, D, A flat, E flat and B flat, and the minor scales of C sharp, F sharp, B, F, C, and G, through two octaves.

2. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the 'cello after the examiner.

3. *Reading at Sight.*

An easy test will be given.

4. *Prepared Work.*

Studies.
Nos. 39 and 51. Studies for the Young Cellist.....L. Feuillard
Nos. 33 and 34 from 113 Studies.....Dotzauer
or Nos. 1, 3, 6 and 9 from Progressive Studies for the Violoncello.....Whitehouse
Gavotte—Op. 5.....W. H. Squire
(Augener Edition No. 7704b)
Meditation.....G. Papin
(Ed. Leduc)

5. *Questions.*

Questions will be asked as to the various marks of expression and as to the key and time of the pieces prepared.

Elementary Grade

No written examination in theory need have been passed by candidates before entering for this examination.

1. *Scales* (from memory).

Major scales of C, G, and D; minor scales of A, E, and B, through two octaves.

2. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner.

3. *Reading at Sight.*

A very easy piece will be given.

4. *Prepared Work.*

Studies.
Nos. 11 and 43. Studies for the Young Cellist.....L. Feuillard
Nos. 1 and 2 from 113 Studies.....Dotzauer
or Nos. 11, 12, 16, and 18 from Progressive Studies for the Violoncello.....Whitehouse
Pieces.
Intermezzo—Op. 5.....W. H. Squire
(Augener Edition No. 7704a.)
Reverie.....Dunkler

5. *Questions.*

Easy questions will be asked as to the notes, rests, marks of expression and time of pieces and studies; also questions on key signatures.

VIOLA, DOUBLE-BASS, HARP AND WIND INSTRUMENTS

In each of these there are only four Grades. The requirements for each Grade can be obtained on application to the Secretary of the Examining Board.

ORGAN

Highest Grade

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

All major and minor (both forms), also chromatic scales played at varying degrees of speed.

(a) Pedals only, for one and two octaves.

(b) Manuals only, hands together at 8ve, 3rd, and 6th for three octaves.

(c) One hand and pedals combined, in similar and contrary motion, from the octave or unison for one and two octaves.

2. *Technical Studies in Pedal Playing.*

Part II, Section II, Nos. 20-59 inclusive.....Nilson
Part II, Section III, Nos. 8-28 inclusive .....Nilson
(Published by Schirmer)

3. *Ear Tests.*

Candidates must be able to name, either by interval or by note (as they may prefer), any diatonic or chromatic interval which may be struck by the examiner above or below the given note, to say whether the common chord is major or minor and to recognize a chord of the dominant 7th in its root position when it is struck. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

Candidates must be able to read a test which will be of about the same difficulty as the pieces set in the Intermediate Grade.

5. *Prepared Work.* One of the following groups:—

Chorale on Ein Feste Burg.....BACH
(Novello Book 18)

Postlude and Trio, Nos. 2 and 3 of 6 Preludes and Postludes, 1st set Op. 101.....STANFORD
(Stainer & Bell)

Alleluia.—Final.....BOSSI
(Durand)

or

Trumpet Voluntary in D.....PURCELL
(Ashdown—Modern Recital Pieces for Organ, Vol. 2)

Prelude (only) from Prelude and Fugue in F minor.....BACH
(Novello Book VI or Peters)

Choral Improvisation, "By the Waters of Babylon", Op. 65 No. 12.....KARG-ELERT

or

Nun Komm Der Heiden Heiland.....BACH
(A due bass)
(Book 17 Novello edition, page 49.)

On hearing the first cuckoo in Spring (arr.: Eric Fenby).....DELIUS
(Oxford University Press)

Toccata in D minor from Fantasia & Toccata.....STANFORD
(Stainer & Bell)

6. *Questions.*

Questions will be asked on the form and modulations, and marks of expression, in the pieces prepared; also on chapters 3, 4, 5 and 6 of A. E. Hull's book on Organ Playing (published by Augener).

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade of the local theoretical examinations must have been passed. (*See Page 681*).

1. *Scales.*

All major and minor (both forms), and chromatic scales.

(a) Pedals only. C D flat, D E flat, E & F for two octaves.

(b) Manuals only, hands together for three octaves in similar and contrary motion. (Harmonic minor only in contrary motion.)

2. *Technical Exercises.*

Technical Studies in Pedal Playing.....NILSON
Part II, Section II, Nos. 1-9 inclusive.
Part II, Section III, Nos. 1-7 inclusive.
(Published by Schirmer)

3. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals within the limits of an octave above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

The music given will not be of greater difficulty than the pieces set for the Junior Grade.

5. *Prepared Work.* One of the following groups:—

Presto from Concerto No. 5 in F.....HANDEL
(Borreman ed. Paris)

2nd Movement 5th Sonata.....MENDELSSOHN
(Any edition)

In Paradisium.....DANIEL-LESUR
(Alphonse Leduc)

or

Evening Hymn on a Ground.....PURCELL
(Cramer)

Prelude and Fugue in C major.....BACH
(Novello, Bk. III, or Peters)

Paean (No. 5 of 5 short pieces)—(O.U.P.).....WHITLOCK

6. *Questions.*

Questions will be asked as to the keys through which the music passes and on marks of expression, etc., found in the pieces; also on chapters 4, 5 and 6 of A. E. Hull's book on Organ Playing. (Pub. by Augener).

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

(a) All major, minor and chromatic scales through three octaves (hands together) on manuals, in similar and contrary motion and starting on either highest or lowest note.

(b) Pedals: All major and minor and chromatic scales through one octave.

2. *Technical Studies in Pedal Playing* (Pub. Schirmer).....NILSON
Part II, Section I.

3. *Ear Tests.*

To name by interval or note (as candidates prefer), with either middle C, G or F as the given note, any other note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

A test consisting of music of about the same difficulty as the pianoforte pieces set for the Elementary Grade.

5. *Prepared Work.* One of the following groups:—

Prelude and Fugue in E minor.....BACH
(Novello, Bk. II, or Peters)

The Holly and the Ivy.....P. C. BUCK
(Year Book Press)

or

Prelude and Fugue in G major.....MENDELSSOHN
(Any edition)

A Folk Tune.....WHITLOCK
(O.U.P., Five Short Pieces)

or

March from Dramma Musica (transcribed by H. Grace Oxford Univ. Press).....BACH
Prelude "Rhosymedre".....VAUGHAN-WILLIAMS

6. *Questions.*

Questions will be asked as to the time and meaning of signs used in the pieces prepared, also on chapters 4 and 5 of A. E. Hull's book on Organ Playing (Published by Augener).

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Scales.*

C, G, D, E, E flat and F in both major and harmonic minor.

(a) Manuals only (hands separately and together) through two octaves in similar motion.

(b) Pedals only. Upper or lower octave, as required by the Examiner.

2. *Technical Studies.*

"The Organ" (Published by Novello).....W. ALCOCK
Pedal Exercises, pages 29 and 32, also pages 49 and 50.
Manual Exercises, pages 40 to 43 inclusive.
Manuals and Pedals, pages 67 to 70 (Nos. 150 to 153 inclusive).

3. *Ear Tests.*

To name by interval or note (as candidates prefer), with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

An easy test will be given about the difficulty of the pieces in the Primary Grade. (Pianoforte.)

5. *Prepared Work.* One of the following:—

Any one Prelude and Fugue of Book I .....BACH
(Novello)
or
Choral Prelude, "Herzlich thut mich verlangen".....BACH
or
Choral Prelude, "Puer natus in Bethlehem".....BACH
(Novello, Bk. XV and Book XVIII)
and
Any one of A Little Organ Book.
(Year Book Press)
or
Largo (only) from "Largo, Allegro, Aria and 2 Variations"
MICHAEL FESTING
(Ed. Ball—Novello)
or
No. 2 from "Three Preludes on Melodies from the Genevan Psalter".....CHARLES WOOD
(Stainer & Bell)

6. *Questions.*

Questions will be asked on notes, rests, marks of expression and time of pieces and studies; also questions on key signatures.

Marks

The following system of marking is adopted in all grades:

Scales and Arpeggios	10
Pedal Exercises	10
Ear Tests	10
Questions	10
Sight Reading	15
Registration	15
Phrasing, legato, musicianship, rhythm	30
	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-04. Very High Distinction 95-100.

SINGING

Highest Grade

Before a certificate can be issued to a successful candidate for this grade the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Technical Studies.*

   See the special set of technical exercises, scales and arpeggios referred to on page 720. Candidates must be prepared to sing all these from memory, without accompaniment, in several keys varying according to the class of voice, using vowel sounds only.

2. *Ear Tests.*

   Candidates must be able to name, by interval or note, any diatonic or chromatic interval above or below a certain given note, within the limits of an octave; also to say whether a common chord is major or minor and to distinguish a dominant 7th chord from a common chord. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the piano after the examiner.

3. *Reading at Sight.*

   One of the tests must be sung either to one vowel throughout, or to solfeggi, and the other tests to the words.

4. *Prepared Work.*

   Studies.

   Soprano or Tenor—Any two from No. 34 to the end.

   First Series of Solfeggios.....Vittorio Ricci

   Alto or Bass—Any two from No. 26 to the end.

   Second Series of Solfeggios.....Vittorio Ricci

Medium Voices—Any two from No. 24 to the end.
Third Series of 45 Solfeggios.....VITTORIO RICCI
or
Any two, from 30 to the end, of 50 Lessons.....CONCONE

Pieces.

NOTE.—*Candidates may transpose their songs to the extent of a tone lower or higher.*

(a) A RECITATIVE and ARIA from any ORATORIO or OPERA. Students will find the following books useful for making suitable selections:—

HANDEL—Twelve songs from the Oratorios, published in separate books for each voice by Novello & Co.

MENDELSSOHN—Solo music from "Elijah," published in separate albums for each voice by Novello & Co.

ROYAL OPERATIC ALBUMS—Published separately for each class of voice by Boosey & Co.

SACRED SONGS—Published separately for each class of voice in the "Imperial Edition," by Boosey & Co. The numbers in this edition are as follows:—Soprano 31, Contralto 42; Tenor 44, Baritone and Bass 32, *or* any Recit. and Aria from the Oxford Series of BACH and HANDEL ARIAS.

(Oxford University Press)

(b) Two songs of contrasted character to be chosen from any two of the following composers:—BRAHMS, SCHUBERT, SCHUMANN, PARRY, STANFORD, SCOTT, IRELAND, SCARLATTI, RACHMANINOFF, HOLST, VAUGHAN-WILLIAMS, PETER WARLOCK, STRAUSS, JOSEPH MARX, DELIUS. (One modern song should be chosen.)

(c) Candidates in each class of voice must also be prepared to sing one song of their own selection and one Folk Song from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS.

(Novello)

5. *Questions.*

Questions will be asked on the style, modulations, marks of expression, occurring in the pieces prepared, and the candidate must also be ready to answer elementary questions on Physiology of the Voice.

The attention of candidates is drawn to the system of marking and directions printed on page 720.

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Technical Studies.*

See the special set of technical exercises, scales and arpeggios referred to on page 720. Candidates must be prepared to sing from memory all those arranged for this particular Grade, without accompaniment, in several keys, using vowel sounds only.

2. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals within the limits of an octave above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the piano after the examiner.

3. *Reading at Sight.*

This test may be sung to one vowel sound throughout, or to solfeggi. A specimen is printed in the set of technical exercises.

4. *Prepared Work.*

Studies.

Soprano or Tenor—Any three from No. 16 to No. 33.
First Series of 50 Solfeggios.....VITTORIO RICCI
Alto or Bass—Any three from No. 13 to No. 23.
Second Series of 40 Solfeggios.....VITTORIO RICCI
Medium Voices—Any three from No. 10 to No. 23
Third Series of 45 Solfeggios.....VITTORIO RICCI

or

Any three (from No. 15 to the end) of 25 Lessons.....CONCONE
Contralto, Baritone and Bass.

or

Any three (from 15 to 40) of 40 Lessons.....CONCONE

or

Any three (No. 10 to end) of 42 Vocalises (Part I).....PANSERON

or

Any three (No. 20 to 50) of 50 Lessons.....CONCONE

or

Any three (from No. 21 to the end) of 30 Vocalises
(Ditson Edition).....SANDERS

Pieces.

(a) One of the easier ARIAS from either an ORATORIO or OPERA contained in the works mentioned in the Highest Grade.

(b) Two songs *of contrasted character* from the following lists:—

[*Candidates may transpose their songs to the extent of a tone lower or higher.*]

For Soprano, Mezzo-Soprano, Contralto

The Bells of San Marie ..... JOHN IRELAND
My True Love Hath My Heart ..... JOHN IRELAND
Lullaby ..... CYRIL SCOTT
The Angel ..... WAGNER
The Quiet Night (Nacht und Traüme) ..... SCHUBERT
Summer Night ..... ARMSTRONG GIBBS
Dream in the Twilight (Op. 29, No. 1) ..... STRAUSS
All Souls' Day (Op. 10, No. 8) ..... STRAUSS
The Heart Worships ..... HOLST
Devon Maid ..... FRANK BRIDGE
Christmas Eve at Sea ..... MALCOLM DAVIDSON
To the Queen of Heaven ..... DUNHILL
Sleep ..... PETER WARLOCK
The Water Mill ..... VAUGHAN-WILLIAMS
Silent Noon ..... VAUGHAN-WILLIAMS
Bluebells from the Clearings ..... ERNEST WALKER
Ferry Ahoy ..... BREWER
Roseen'du ..... BAINTON
A Sea Dirge ..... DUNHILL
It Was a Lover and His Lass ..... MORLEY
Immortality ..... CYRIL SCOTT
A collection of 50 Irish Melodies ..... C. V. STANFORD
Invocation (Soprano) ..... BRYCESON TREHARNE
Songs of Innocence ..... HAROLD DARKE
(Stainer & Bell)

Soprano

Alleluia ..... MOZART
The Violet ..... MOZART
Se tu m'ami ..... PERGOLESI
Nina ..... PERGOLESI
May Night (Mainacht) ..... BRAHMS
My Love is Bright (Meine Liebe ist Grün) ..... BRAHMS
The Question (Der Neugierige) ..... SCHUBERT
Faith in Spring (Fruhlingsglaube) ..... SCHUBERT
Après un Rêve ..... G. FAURÉ
Now sleeps the Crimson Petal ..... ROGER QUILTER
The Crying of Water ..... CAMPBELL-TIPTON

Mezzo-Soprano

When I am laid in Earth ..... PURCELL
Care Selve ..... HANDEL
Oh, Sleep why dost thou leave me ..... HANDEL

So clear thine Eyes (Dein Blaues Auge)..... Brahms
Margaret's Song (Gretchen am Spinnrade)..... Schubert
The Walnut Tree (Der Nussbaum)..... Schumann
The Trout (Die Forelle)..... Schubert
Amarille..... Caccini
On the Steppe..... Gretchaninoff
Why (Warum)..... Tschaikowsky
Dedication (Zuveignung)..... Strauss
Silver..... Armstrong-Gibbs

Contralto

From Grief I cannot measure (Aus meinen grossen Schmerzen).... Franz
Sapphische Ode..... Brahms
Death and the Maiden (Tod und das mädchen)..... Schubert
Thou art repose (Du bist die Ruh)..... Schubert
Biblical Songs (any one)..... Dvorak
Dreams..... Wagner
Where corals lie..... Elgar
Cloths of Heaven..... Dunhill
I got me Flowers..... Vaughan-Williams

For Tenor, Baritone, Bass

Song Cycle, "The Wind Among the Reeds" (any one)..... Dunhill
(Pub. by Stainer & Bell)

Silent Noon..... Vaughan-Williams
Summer Night..... Armstrong Gibbs
Quiet Night (Nacht und Traüme)..... Schubert
Come Away, Death..... T. Arne
Verrath..... Brahms
Christmas Eve at Sea..... Malcolm Davidson
Dead, Long Dead (from the "Maud" Cycle)..... A. Somervell
When I Am Laid in Earth (tenor only)..... Purcell
The Water Mill..... Vaughan-Williams
Ethiopia saluting the colours (baritones and bases only)..... C. Wood
Invictus..... Armstrong Gibbs
By a Bier Side..... Armstrong Gibbs
My Heart Now is Merry (Phoebus & Pan)..... Bach
O Mistress Mine..... Peter Warlock
Dream in the Twilight (Op. 29, No. 1)..... Strauss
A Farewell (tenor)..... Bryceson Treharne
Montarrat (baritone)..... Bryceson Treharne

At Night (baritone) ..... Bryceson Treharne
All Soul's Day (Op. 10, No. 8) ..... Strauss
A Shropshire Lad (any one) ..... A. Somervell
English Lyrics, Third Set (any one) ..... C. H. Parry
A Collection of 50 Irish Melodies ..... C. V. Stanford
Eleanore ..... Coleridge-Taylor
O Vision Entrancing ..... Goring Thomas
I Have Twelve Oxen ..... John Ireland

(c) Candidates in each class of voice must also be prepared to sing one song of their own selection, not included in the above lists, and one Folk Song from "A Selection of Collected Folk Songs," C. Sharp and Vaughan-Williams (Novello).

5. *Questions.*

Questions will be asked as to the keys through which the music passes and as to the marks of direction and expression found in the pieces and studies prepared.

The attention of candidates is drawn to the system of marking and directions given on page 720.

Intermediate Grade

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Technical Studies.*

See the special set of technical exercises, scales and arpeggios referred to on page 720. Candidates must sing from memory, with or without accompaniment (at the discretion of the examiners), one or all of the exercises arranged for this Grade in the various keys most suited to the particular voice.

2. *Ear Tests.*

Candidates must be able to name by interval or note (as they prefer) with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the keynote is left to the examiner. A rhythmical test is also given (which the candidates will be required to tap or sing), as well as a melodic test which the candidates must hum, sing or play on the piano after the examiner.

3. *Reading at Sight.*

This test may be either sung to one vowel sound throughout, or to solfeggi. A specimen will be found printed in the special set of technical exercises.

4. *Prepared Work.*

Studies.

Soprano or Tenor—Two from No. 1 to 15.

First Series of 50 Solfeggios.....Vittorio Ricci

Any two from 1 to 19 of 50 Lessons.....Concone

Alto or bass—two from No. 1 to No. 12.

Second Series of 40 Solfeggios.....Vittorio Ricci

Medium Voices—Two from No. 1 to No. 10.

Third Series of 45 Solfeggios.....Vittorio Ricci

or

Any two from 1 to 15 of 25 Lessons.....Concone

Contralto, Baritone and Bass.

Any two from 1 to 9 inclusive of 42 Vocalises.....Panseron (Part 1.)

Any two from 1 to 15 of 40 Lessons.....Concone

Two songs of contrasted character, selected from one of the following lists, and also two Folk Songs from "A Selection of Collected Folk Songs," C. Sharp and Vaughan-Williams (Novello), and one song of candidate's own choice.

Candidates may transpose their songs to the extent of a tone lower or higher.

FOR SOPRANO:—

Five Miniature Ballads (any three as one).....W. Y. Hurlestone

Where the Bee Sucks. (Pub. by Boosey).....Arne

Bel Amie.....
A Word of Thine. (Pub. by Schirmer) } as one.....J. S. Ford

Cradle Song.....Grieg

I Heard a Piper Piping.....Peter Warlock

Love's Philosophy.....Roger Quilter

To Daffodils.....Roger Quilter

A Child Asleep.....Elgar

Blackbird Song.....Cyril Scott

Second Song Cycle (any two of the four as one).....Perrin (Published by Stainer & Bell, London)

A Widow-Bird Sat Mourning.....Bryceson Treharne

Solveig's Song.....Grieg

My mother Bids me.....Haydn

I love thee (Ich liebe dich).....Beethoven

Pastorale (arr. A.L.).....Veracini

The month of May (Im wunderschonen Monat Mai).....Schumann

Roses from the East (aus den ostlichen Rosen).....Schumann

Maiden's Song (Madchenlied).....Brahms

A legend.....Tschaikowski

When I was Seventeen.....Swedish Folk Song

Yarmouth Fair.....Peter Warlock

Sweet and Twenty.....Peter Warlock

FOR MEZZO-SOPRANO:—

My True Love Hath My Heart ..... PARRY
I Heard a Piper Piping ..... NORMAN PETERKIN
Slow, Horses, Slow ..... ARMSTRONG GIBBS
Ring Out, Wild Bells ..... C. L. BAINTON
Twelve Oxen ..... PETER WARLOCK
The Jocund Dance ..... ROGER QUILTER
Song of the Palanquin Bearers ..... MARTIN SHAW
As I Walked Forth and Infant Joy ..... HUBERT FOSS
Five Miniature Ballads (any three) ..... W. Y. HURLESTONE
Shepherd Love ..... H. CLAXTON
12 Songs, Op. 35 (any one) (Novello) ..... SCHUMANN
Spirit's Song ..... HAYDN
La Vision ..... SCHUMANN
What Tho' I Trace ..... HANDEL
Voi che Sapete (Nozze di Figaro) ..... MOZART
Child, What Sings the Morning ..... A. MALLINSON
In the time of Roses ..... REICHARDT
Goodnight (Gutte Nacht) ..... FRANZ
Woodland Journey (Wahlfahrt) ..... FRANZ
Maria Lullaby ..... REGER
A Bird's Cry ..... SINDING
Plaisir D'Amour ..... MARTINI
Blue as her Eyes ..... WALTER WATTS
Devon Maid ..... BRIDGE
The Merry Month of May ..... STANFORD
Sigh no more ladies ..... FREDERICK KEEL

FOR CONTRALTO:—

10 Canzonets (any one) (Novello) ..... HAYDN
Pieta Signor ..... STRADELLA
One Summer Night ..... GRIEG
Evening Song ..... SCHUMANN
Pull Away Home ..... GORDON JACOB
The King's Way ..... ELGAR
Evening Hymn ..... PURCELL
L'Heure Exquise ..... POLDOWSKI
Hame ..... WALFORD DAVIES
Morning Hymn ..... HENSCHEL
As I Walked Forth and Infant Joy ..... HUBERT FOSS
The Sea Wrack ..... HAMILTON HARTY
The Hero ..... SCHUMANN
Uphill ..... BRYCESON TREHARNE
Where Corals Lie ..... ELGAR
The Leaves and the Wind ..... LEONI

Nature's Praise (Die Ehre Gottes) ..... Beethoven
She never told her love ..... Haydn
Request (Bitte) ..... Franz
Homeless (In der Fremde) ..... Schumann
The Lotus Flower ..... Schumann
The Bells of San Marie ..... Ireland
Lilacs ..... Rachmaninoff
Linden Lea ..... Vaughan-Williams

FOR TENOR:—

I attempt from Love's Sickness to Fly ..... Purcell
Milkmaid Song ..... Stanford
Waft Her, Angels ..... Handel
Sweet and Twenty ..... Peter Warlock
Sigh No More, Ladies ..... Aiken
Minnelied ..... Brahms
Cavatina, from "Magic Flute" ..... Mozart
Eleanore ..... Coleridge-Taylor
La Charmante Marguerite ..... Old French
And So I Made a Vilanelle ..... Cyril Scott
Over the Western Sea ..... Mallinson
Four Songs from the Cherry Gardens ..... Sterndale Bennett

FOR BARITONE:—

I Attempt from Love's Sickness to Fly ..... Purcell
As I Walked Forth and Infant Joy ..... Hubert Foss
Linden Lea ..... Vaughan-Williams
Easter Snow ..... arr. by Stanford
The Red Fuchsia Tree ..... Roger Quilter
The Palatine's Daughter ..... Norman Peterkin
An Old Carol ..... Roger Quilter
Morning Hymn ..... Henschel
Yarmouth Fair ..... Peter Warlock
The Wanderer ..... Schubert
No Word from Thee ..... Tschaikowsky
Four by the Clock (Cavalier's Song) ..... Mallinson
Pipes of Pan ..... Elgar
O Cessate di Piagarmi ..... Scarlatti
Canzone (L'Addio) ..... Mozart
Weep Ye No More ..... Roger Quilter
Comme Raggio di Sol ..... Caldara
Mariage des Roses ..... Cesar Franck
The Swan Bent Low ..... MacDowell
Lungi dal caro bene ..... Secchi

FOR BASS:—

Droop Not, Young Lover (Golden Treasury of Songs).....HANDEL
Vittoria.....CARISSIMI
Serenade.....TSCHAIKOWSKY
Sing Ho, for the Horned Owl (Pub. by Schirmer).....J. S. FORD
Easter Snow.....arr. by STANFORD
The Faithless Shepherdess.....ROGER QUILTER
Wiegenlied.....BRAHMS
Bois Epais.....LULLY
Through the Ivory Gate.....PARRY
Sands o' Dee.....CLAY

5. *Questions.*

Questions will be asked as to the various marks of expression and as to the time and key of the pieces and studies prepared.

The attention of candidates is drawn to the system of marking and directions given on page 720.

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Technical Studies.*

See the special set of technical exercises, scales and arpeggios referred to on page 720.

Those arranged for this particular Grade must be sung from memory. with or without accompaniment, at the discretion of the examiner, in those keys which are most suited to the individual voice.

2. *Ear Tests.*

To name by interval or note (as candidates prefer), with middle C, G or F as the lower note, any note of the diatonic major scale struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the piano after the examiner.

3. *Reading at Sight.*

A specimen will be found printed in the special set of technical exercises.

4. *Prepared Work.*

Studies.

(For all voices.)

Any three from No. 13 to the end.

24 Little Solfeggios for Beginners, Appendix.....VITTORIO RICCI

Pieces.

Candidates in each class of voice must, *in addition* to their selections from the following lists, be prepared to sing a song of their own selection.

Any two of a contrasted character from one of the following lists:—

Candidates may transpose their songs to the extent of a tone lower or higher.

FOR SOPRANO, MEZZO-SOPRANO, CONTRALTO:—

Folk Song from Haensel and Gretel.....HUMPERDINCK
Where the Bee Sucks (Key F).....ARNE
Thine Eyes Still Shine for Me.....PARRY
Holly Song.....HOWELLS
Tyrley Tyrlow.....WARLOCK
Pastorale.....arr. A. L.
Snow Flakes.....MALLINSON
Cradle Song, in G flat.....BRAHMS
To Music (Golden Treasury, Vol. I).....SCHUBERT
The Poet's Song.....PARRY
The Little Red Lark (Key F).....IRISH
On Wings of Song.....MENDELSSOHN
What If I Never Speed (from 50 Dowland Songs, Bk. II, High Voice).....DOWLAND
(Stainer & Bell)
The Fiddler of Dooney.....R. MILFORD
The Gipsy Girl.....R. MILFORD
This Joyful Eastertide.....arr. A. SOMERVELL
Oh! Bother, Sang the Thrush.....LIZA LEHMANN
Slumber, Dear Maid (Largo).....HANDEL
Weep You No More, Sad Fountains (from 50 Dowland Songs, Low Voice, Bk. II).....DOWLAND
(Stainer & Bell)
Cradle Song.....BYRD
Nachklang (Tears), Op. 59, No. 4.....BRAHMS
Sapphic Ode.....BRAHMS
Scheiden und Meiden (Parting).....BRAHMS
Ständchen (Serenade).....BRAHMS

May Song ..... BEETHOVEN
Lullaby ..... MOZART
Have you seen but a whyte lillie grow ..... ANON
Sunday (Sonntag) ..... BRAHMS
Cradle Song (Wiegenlied) ..... BRAHMS
Hedge-Roses (Heiden-Roslein) ..... SCHUBERT
The First Primrose ..... GRIEG
The Cuckoo ..... LEHMANN
The First Rose ..... LEHMANN
When Icicles hang by the wall ..... VAUGHAN-WILLIAMS
My Love's an Arbutus ..... STANFORD
Come, Gentle Night ..... ELGAR
Eyes of Night ..... GRAHAM PEEL
O, Willow, Willow (Folk Song) ..... arr. WHITTAKER
Early one morning ..... HEALEY WILLAN
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

FOR TENOR:—

And Shall Trelawney Die? ..... GORDON SLATER
(Oxford University Press)
The Wind Mill ..... COLIN TAYLOR
When as the Rye ..... P. WARLOCK
Laughing Song ..... GORDON JACOB
The Talisman ..... SCHUMANN
Caro mio ben ..... GIORDANI
Farewell, Dearest Gretchen ..... GADE
Vieille Chanson (In the Woods) (Key F) ..... BIZET
Sérénade ..... SCHUBERT
A Last Year's Rose ..... R. QUILTER
My Lovely Celia—Old English air ..... arr. by LANE WILSON
Tell Me, My Heart (E flat) ..... BISHOP
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

FOR BARITONE:—

The Self-Banished ..... BLOW
Fairest Isle (Golden Treasury) ..... PURCELL
Song of the Imprisoned Huntsman ..... SCHUBERT
Slumber, Dear Maid (Largo) ..... HANDEL
The Ploughboy ..... WM SHIELD
(Oxford University Press)
O, Sweet Flower / There is a Lady — Published together (Oxford Choral Songs) ..... COOPER / FORD

The Jolly Carter.....arr. by E. J. Moeran
(Oxford Press)
Love Me or Not.....Secchi
In Summer Time on Bredon.....Graham Peel
A Lover's Garland.....C. H. Parry
Souvenir.....Cesar Franck
Folk Songs, from "A Selection of Collected Folk Songs," C. Sharp and Vaughan-Williams (Novello).

FOR BASS:—

The Sandman.....Brahms
When Two That Love are Parted.....Secchi
For the Mountains Shall Depart (from Elijah).....Mendelssohn
An Old English Love Song.....Lane Wilson
The Fisher Maiden (Key F).....Schubert
Sun of the Sleepless.....Schumann
Folk Songs, from "A Selection of Collected Folk Songs," C. Sharp and Vaughan-Williams (Novello).

5. *Questions.*

Questions will be asked as to the various marks of expression and as to the key and time of the pieces prepared.

The attention of candidates is drawn to the system of marking and direction given on page 720.

Elementary Grade

No written examination in theory need have been passed by candidates before entering for this examination.

1. *Technical Studies.*

See special set of technical exercises, scales and arpeggios referred to in previous grade.

Candidates must be able to sing with or without accompaniment (at the discretion of the examiner) in the various keys suited to the individual voice, all those exercises arranged for this particular Grade.

2. *Ear Tests.*

With any note chosen by the examiner about the middle of the key-board as the lower note, to distinguish between the major or minor 3rd, perfect 5th and perfect octave from that note.

3. *Reading at Sight.*

See specimen on the same page as technical exercises.

4. *Prepared Work.*

Studies.

FOR SOPRANO AND MEZZO-SOPRANO:—

Any three from No. 1 to No. 12.

24 Little Solfeggios from Beginner's Appendix.....VITTORIO RICCI

Pieces (which may be transposed to the extent of a tone higher or lower).

A. Any two of the following:—

"Songs for the Young" (Augener Edition No. 8931).

"Popular Nursery Songs," arranged by.....BRAHMS
(Augener Edition No. 8886)

"Six Children's Songs," Op. 59.....ARENSKY
(Published by Breitkopf & Haertel)

"Six Little Songs" (Augener Edition No. 8952).....WECKERLIN

"Seven Children's Songs" (Augener Edition No. 8833).....GRIEG

"It was a Lover and his Lass".....MORLEY

"The Sandman".....BRAHMS

"Six Songs" (Joseph Williams).....W. H. HADOW

Who is Sylvia.....SCHUBERT

Elizabethan Love Songs (Boosey & Co.) arranged.....F. KEEL

B. Any one of the following Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello): "The Fox," "The Holly and the Ivy," "As I walked Through the Meadows," "Dashing Away With the Smoothing Iron," "I Will Give My Love an Apple," "I'm Seventeen Come Sunday," "William Taylor."

5. *Questions.*

Questions will be asked on notes, rests, marks of expression and time of pieces and studies, also on key signatures, etc.

The attention of candidates is drawn to the system of marking and directions given below.

Marks

The following system of markings will be adopted:—

	Primary Elementary and Junior Grades	Intermediate Senior and Highest Grades
Posture and Facial Expression	8	8
Intonation	8	10
Accuracy as to Notes and Rests	10	..
Breath Control, Production of Voice	10	12
Blending of Registers	6	6
Attack	8	8
Diction	8	10
Expression, Phrasing, etc	8	10
Reading at Sight	10	8
Ear Tests	8	10
Scales and Arpeggios	10	10
Questions	6	8
Total	100	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

Directions to Candidates

1. Candidates may bring an accompanist, who, however, must retire from the examination room directly the prepared pieces which need accompaniment have been rendered.

2. A complete set of the technical exercises, scales and arpeggios required for all the five grades can be obtained at a cost of 25c, post free, from the General Secretary at the McGill University Conservatorium of Music, Montreal.

3. Candidates should be provided with two copies of each of the studies and pieces.

4. In all grades, songs can be sung by candidates *with either the original words or a translation.*

GENERAL SCHOOL EXAMINATION IN INSTRUMENTAL OR VOCAL INSTRUCTION

On application to the General Secretary, McGill University Conservatorium of Music, Montreal, a general school examination can be arranged for any time during the year. The expense must, of course,

vary according to the length of the railway journey the Examiner has to take. Due notice should, therefore, be given to the Secretary, so that he may be able to arrange the visit of the Examiner at a time when he is somewhere in the district, when the fee will be $20.00 for the first hour and $10.00 for each succeeding hour. Not less than one hour can be arranged for. It is understood that no individual reports will be sent in on the work submitted, but only a general report made on each branch of music. (Class singing, referred to hereafter, may be taken as one branch of this examination.)

INSTRUMENTAL ENSEMBLE EXAMINATION

Classes of strings or wind *or* strings *and* wind combined may be entered.

Examinations are also held in

PIANOFORTE CLASS WORK

CLASS SINGING EXAMINATION

This examination is not necessarily confined to an examination at a school. Any teacher may enter a class for examination. A short general report will be rendered to the person who enters the class for examination, and the details of the report will be given on the following lines:—

Accuracy as to Notes, Rests, etc.
Maintenance of Pitch.
Balancing of Parts and Groupings of Voices.
Articulation and Pronunciation.
Quality of Tone.
Expression and Conception of the works performed.
Sight Singing.
Performance of Vocal Exercises.

Requirements

1. The class must sing the vocal exercises prescribed, each group of the voices singing them separately in the keys best suited to the voices.*

2. At least two short compositions of different character and not in unison must have been previously prepared.

3. Sight Singing from the staff notation.

Three short tests of varying difficulty will be given.

*These exercises can be obtained on separate sheets from the Secretary, McGill University Conservatorium of Music, price 25c per dozen, post free, on receipt of remittance.

REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC

Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the degree of Bachelor of Music, may proceed to the Degree of Doctor of Music. Candidates must present 1. A composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying not less than forty minutes in performance; *or* 1. A composition such as an opera (not light opera), oratorio or cantata. In the event of a work under section 2 being offered, the first number must be an introductory orchestral movement in the form of a concert overture, it must contain some eight part vocal writing and fugal treatment and must be scored for a full orchestra. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition is necessary, together with a critical knowledge of the full scores of certain prescribed work.

Graduates in music of other Universities can, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus.B., if they wish to proceed to the further degree of Mus.D., provided they secure permission to do so from the Dean of the Faculty of Graduate Studies and Research. The period of seven years referred to above will be counted from the date on which they received the degree of Bachelor of Music from their own University.

EXAMINATION REQUIREMENTS FOR DEGREE OF DOCTOR OF MUSIC

Harmony up to eight parts.
Counterpoint up to eight parts (Strict and free).
Instrumentation.
Canon four and two.
Fugue up to five parts.
History of Music.
Form and Analysis.

(Latter based on knowledge of Beethoven's nine symphonies, Brahms' first and fourth symphonies, Strauss' Till Eulenspiegel, Op. 28, either Bach's Magnificat or Beethoven's Mass in D Op. 123, and Mozart's Marriage of Figaro, or Wagner's Tannhauser, Wagner's Prelude and Liebestod (Tristan and Isolde), Humperdinck's Overture to Hansel and Gretel and Brahms' Tragic Overture (Op. 81).

McGILL UNIVERSITY

MONTREAL

FACULTY OF GRADUATE STUDIES AND RESEARCH

1943 - 1944

INDEX

	Page
Administrative Officers	735
Admission	739
Bursaries	740
Civil Servants	745
Classes of Students	739
Classification of Marks	745
Cognate Subjects	745
Committee on Research	735
Degrees	740
Departments of Study—	
Agronomy	754
Anatomy	755
Bacteriology	756
Bacteriology (Agricultural)	756
Biochemistry	757
Botany	757
Chemistry	758
Chemistry (Agricultural)	762
Civil Engineering and Applied Mechanics	763
Classics	764
Comparative Philology	764
Economics and Political Science	765
Education	766
Electrical Engineering	766
Endocrinology	801
English	768
Entomology	771
Experimental Medicine and Surgery	772
French	773
Genetics	776
Geological Sciences	777
German	779
Greek	765
History	779
Horticulture	781
Latin	765
Mathematics	782
Mechanical Engineering	783
Metallurgical Engineering	785
Mining Engineering	784
Neurology and Neurosurgery	786
Nutrition	787
Parasitology	788
Pathology	789
Pharmacology	790
Philosophy	790
Physics	791
Physics (Macdonald College)	795
Physiology	796
Plant Pathology	796
Psychology	797
Sociology	799
Theological Studies	800
Zoology	800

	Page
Endocrinology	801
Faculty Members	736
Fees	741
Fellowships, Scholarships and Medals	740
French Summer School	774
General Rules	744
General Statement	739
Graduate Students' Association	743
Institute of Endocrinology	801
Laboratories and Libraries	800
Language Examinations, Ph.D.	750
Macdonald College Courses	740
Major and Minor Subjects	744
Marks, Classification of	745
Medals	740
Members of the Faculty	736
Ph.D. Language Examination	750
Registration	739
Regulations concerning Theses	752
Regulations for Degrees—	
Doctor of Civil Law (D.C.L.)	751
" " Music (Mus. Doc.)	751
" " Philosophy (Ph.D.)	748
Master of Arts (M.A.)	746
" " Science (M.Sc.)	747
" " Engineering (M. Eng.)	747
" " Civil Law (M.C.L.)	748
" " Commerce (M. Com.)	748
Research Associates	737, 744
Research, Committee on	735
Research Fellows	737, 743
Research Institute of Endocrinology	801
Resident Graduate Study	745
Rules, General	744
Scholarships	740
Theses	752
Tuition Fees	741

McGILL UNIVERSITY

FACULTY OF GRADUATE STUDIES AND RESEARCH

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.

Dean of the Faculty of Graduate Studies and Research.....David L. Thomson, M.A., Ph.D., F.R.S.C.

Secretary of the Faculty of Graduate Studies and Research.....A. Norman Shaw, M.A., D.Sc., F.R.S.C.

Bursar.....W. Bentley, C.G.A.

Registrar.....T. H. Matthews, M.A.

A complete list of the teaching staff of the University, including the Faculty of Graduate Studies and Research, is printed as a separate announcement, which may be obtained from the Registrar's Office.

COMMITTEE ON RESEARCH

Dean D. L. Thomson, Chairman

Professor J. J. O'Neill
Professor W. H. Barnes
Professor F. F. Osborne
Professor G. L. Duff
Professor T. W. M. Cameron
Professor C. A. Dawson
Professor C. L. Huskins
Professor J. L. Darbelnet

MEMBERS OF THE FACULTY

Professor D. L. Thomson (Biochemistry)—Dean.
Professor E. R. Adair (History)
Professor B. P. Babkin (Physiology)
Professor W. H. Barnes (Chemistry)
Professor N. J. Berrill (Zoology)
Dr. R. Boyer (Chemistry)
Professor W. H. Brittain (Entomology)
Professor J. S. L. Browne (Experimental Medicine)
Professor T. W. M. Cameron (Parasitology)
Professor J. B. Collip (Endocrinology)
Professor W. V. Cone (Neurology)
Professor J. G. Coulson (Plant Pathology)
Professor E. W. Crampton (Animal Nutrition)
Professor J. L. Darbelnet (French)
Professor C. A. Dawson (Sociology)
Professor J. P. Day (Economics and Political Science)
Professor W. A. DeLong (Agricultural Chemistry)
Professor G. Lyman Duff (Pathology)
Professor H. G. Files (English)
Professor J. E. Gill (Geological Sciences)
Professor W. H. Hatcher (Chemistry)
Professor J. C. Hemmeon (Economics and Political Science)
Professor H. E. Hoff (Physiology)
Professor J. Hughes (Education)
Professor C. L. Huskins (Genetics)
Dr. H. Jasper (Neurology)
Professor C. E. Kellogg (Psychology)
Professor D. A. Keys (Physics)
Professor J. E. Lattimer (Agricultural Economics)
Professor J. U. MacEwan (Metallurgy)
Professor W. D. McFarlane (Agricultural Chemistry)
Professor C. Macmillan (English)
Professor O. Maass (Chemistry)
Professor E. G. D. Murray (Bacteriology)
Professor R. V. V. Nicholls (Chemistry)
Professor J. J. O'Neill (Geological Sciences)
Professor F. F. Osborne (Geological Sciences)
Professor W. Penfield (Neurology)
Professor L. C. Raymond (Agronomy)
Professor G. W. Scarth (Botany)
Professor H. Selye (Histology)
Professor A. N. Shaw (Physics)
Professor R. L. Stehle (Pharmacology)
Professor W. H. Watson (Physics)
Professor C. A. Winkler (Chemistry)
Professor V. C. Wynne-Edwards (Zoology)
Professor W. D. Woodhead (Classics)

RESEARCH FELLOWS

JOHANNES HOLTFRETER, Ph.D. (Freiburg)
Research Fellow in Zoology.

HECTOR MORTIMER, M.B., Ch.B. (Aberdeen), F.R.C.S. (Ed.)
Research Fellow in Endocrinology.

STANLEY GEORGE SMITH, B.Sc., Ph.D.
Research Fellow in Genetics.

WILLIAM E. SWALES, B.V.Sc. (Toronto), Ph.D.
Research Fellow in Parasitology.

ELEANOR M. VENNING, B.A., M.Sc., Ph.D.
Research Fellow in Experimental Medicine.

RESEARCH ASSOCIATES

MARTIN M. HOFFMAN, B.A. (Mount Allison), M.Sc. (Dalhousie), Ph.D.
Research Associate in Experimental Medicine.

GEORGES MARIE CHARLES MASSON, M.V.D. (Paris), L. ès Sc. (Montreal), Ph.D.
Research Associate in Anatomy.

DOROTHY OSBORNE, B.Sc. (McGill), D. ès Sc. (Montpellier)
Research Associate in Biochemistry.

GENERAL STATEMENT

The Faculty of Graduate Studies and Research directs and controls all courses leading to higher degrees and recommends candidates for these degrees.

The members of the Faculty are selected by the University Committee on Research (see page 735). Under the University Statutes this Committee is responsible, jointly with the Graduate Faculty, for organizing and co-ordinating programmes and courses of research. The Dean of the Faculty is Chairman of the Committee.

ADMISSION

Advanced courses of instruction are offered to students who are graduates of any University of recognized standing, and who have at least second class honours, or the equivalent of at least second class honours as granted by McGill University, in the subject in which they desire to take their major work. In the particular case of students proceeding to an M.A. degree in Education, distinction in the general course will be accepted as a qualification for admission. Admission to these advanced courses does not in itself imply candidacy for a higher degree.

CLASSES OF STUDENTS

1. Those admitted to the Faculty as regular students studying for a higher degree are termed "graduate students."

2. Those qualified students who are permitted to take one or more courses in the Graduate Faculty, without intention of proceeding to a degree, are termed "partial students of the Graduate Faculty."

3. Those students who are not sufficiently prepared to rank as "graduate students" can apply to the respective Faculties for admission to undergraduate studies. These students are not registered in the Graduate Faculty, but must register as partial students in the undergraduate Faculty in which they take courses.

REGISTRATION

Applications for registration as a graduate student should be made in triplicate on special printed forms which may be obtained at the Dean's Office. Applicants who are not McGill graduates must submit a certified copy of their complete academic record. These applications, duly signed, must reach the Dean's Office not later than October 2nd, 1943, otherwise a late fee of $5.00 will be charged.

Candidates must consult the Department or Departments in which they intend to study, regarding the course they desire to pursue, in time to attend the regular courses of instruction which begin on September

30th, 1943. Formal application for permission to attend courses must be filled up by the student and signed by the Chairman or Chairmen of these Departments, by the Professors under whom the applicant intends to study, and filed with the Dean of the Faculty of Graduate Studies and Research as early as possible, and at the latest by October 2nd.

As soon as the candidate's course has been approved he must register without delay at the Registrar's Office. He will not be given credit for attendance until he does so. Candidates must register and pay their fees not later than October 16th, 1943, otherwise the prescribed penalty for late registration and late payment of fees will be enforced.

Candidates whose courses extend for more than one year must register at the commencement of each year of their course. If not registered at the beginning of the academic year, as provided above, the candidates will not be eligible for the degree at the following Spring Convocation.

Candidates who have completed their courses, who have not yet presented their thesis, and who are no longer in residence at McGill University, must register at the offices of both the Dean and the Registrar at the beginning of the session in which they present their thesis, with the usual registration fee of $10.

DEGREES

Graduate students may proceed to one or other of the following degrees:—Master of Arts, Master of Science, Master of Engineering, Master of Commerce, Master of Civil Law, Doctor of Philosophy, Doctor of Civil Law, Doctor of Music.

COURSES AT MACDONALD COLLEGE

Graduate students who are taking the major part of their work at Macdonald College may go into residence there and can take, when required, other graduate courses given at the University.

Students wishing to reside in Macdonald College should send in their application for accommodation to the Registrar, Macdonald College, Que., as soon as possible.

Any fees in connection with courses taken at Macdonald College are payable to the Bursar of Macdonald College.

FELLOWSHIPS, SCHOLARSHIPS AND MEDALS

Details of Fellowships, Scholarships, Bursaries, Medals and Loan Funds available for graduate students will be found in the Announcement of Scholarships, Bursaries, Prizes and Loan Funds.

In several Departments graduate students are eligible for demonstratorships and instructorships. Information concerning these may be obtained from the Chairman of the Department concerned.

FEES

1. For degree of M.A. (non-science subjects), M.Com. and M.C.L.
   - First Year Students $145.00
   - Any subsequent year of residence 130.00
2. For degree of M.A. (Science subjects involving laboratory work)
   M.Sc., and M.Eng.
   - First Year Students 165.00
   - Any subsequent year of residence 155.00
3. For degree of Ph.D. (non-science subjects)
   - First Year Students (See Section 7) 145.00
   - Second Year Students 130.00
   - Third Year Students 130.00
   - Any subsequent year of residence 130.00
4. For degree of Ph.D. (Science subjects involving laboratory work)
   - First Year Students (See Section 7) 165.00
   - Second Year Students 155.00
   - Third Year Students 155.00
   - Any subsequent year of residence 155.00
5. A student who has completed his course but has not completed his thesis pays a registration fee of $10.00 at the beginning of the session in which he intends to present his thesis. If a candidate for the Master's degree has not paid full fees for at least one year of resident study at McGill, or if a candidate for the Ph.D. has not paid full fees for at least two years of resident study at McGill (or three years in all if the year for the Master's degree is included), he is required to pay a graduation fee of $20 for the Master's degree or of $35 for the Ph.D. degree.

   Those graduate students who are required or recommended by the department concerned to spend one year of their Ph.D. course at another university may be exempted from this fee of $35.
6. A student permitted by his Department to take the work for the Master's degree spread over more than one year pays the first year's fee, and a fee of $25.00 for each subsequent year of residence. If a course or courses have to be repeated the regular fee applies.
7. The year or years of study for the Master's degree counts as the first year of the Ph.D. degree.
8. A student permitted by his Department to take the work for the Ph.D. degree spread over more than three years pays a fee of $25.00 for each year of residence subsequent to the third year. If a course or courses have to be repeated the regular fee applies.

9. Any student taking a lecture course or doing laboratory work or receiving guidance or consultation from any member of the staff is considered to be in residence. He must register and pay fees as above.

10. The full fees are inclusive, and cover tuition, laboratory, graduation, library, health and athletics and Graduate Students' Association.

11. Students taking qualifying courses register in the Faculty in which they are taking the courses, and pay the partial tuition fee of that Faculty with a maximum of $155.

12. A Graduation Fee of $100.00 is payable for the degree of D.C.L. and Mus.Doc. and should be forwarded with the application. There is no fee for the degrees when granted "honoris causa."

13. A candidate for any of the above degrees who fails in his thesis may present a revised thesis once again, for a subsequent Convocation, upon payment of the following fees:

Master's Degree	$10.00
Ph.D. Degree	20.00
D.C.L. and Mus. Doc	50.00

14. Additional fee for degree conferred "in absentia" 10.00

15. Fees for Supplemental Examinations, granted under special circumstances, by permission of the Dean, are payable in advance, per paper 10.00

16. The fee for special Ph.D. language examinations is 5.00
The fee for Supplemental Examinations in Ph.D. French and German Reading if taken at the regular time is 5.00

17. French Summer School students who are proceeding to the M.A. degree are liable for the regular fee of $145.00 for the M.A. course but are remitted $25.00 of this for each Summer Session they have attended in the advanced course. They are required to register in the office of the Dean of the Graduate Faculty at the end of each of the second and third Summer Sessions; for this no fee is necessary. At the end of the fourth Summer Session they are required to register in the Graduate Faculty and pay the balance still owing of the M.A. fee of $145.00. If the presentation of the thesis is postponed beyond the May following this registration, they will pay an additional registration fee of $10.00 at the beginning of the session in which the thesis is to be presented. Students who have completed four Summer Sessions in French (or the equivalent) are excused the in absentia fee when they obtain an M.A. degree.

18. Fees are due and payable at the Bursar's Office on or before October 16th. If paid by instalments the second instalment is due on February 2nd. An additional $5.00 is charged for payment by instalments. An additional $2 is charged for payment after the specified dates.

19. Immediately after October 16th a list of students who have not paid their fees is sent to the Dean of the Faculty, who removes their names from the register of attendance. Such students cannot be re-admitted to any class until instructions have been received from the Bursar that the fees have been paid.

20. Late fees are charged as follows:—

Application forms, after October 2nd	$5.00
Registration at Registrar's Office, after October 16th	5.00
Payment of fees, after October 16th	2.00

21. Each student in Chemistry is required to deposit the sum of $20 as Caution Money, to cover 10% of the cost of all chemicals and other supplies used by the student, and damage done to furniture, apparatus, books, etc. This amount, less deductions, is returned at the close of the session.

22. All resident students with the exception of those at Macdonald College, are entitled to the following health and athletic privileges:—

(a) Medical examination; daily consultation service and hospital treatment, as furnished to undergraduates.

(b) Tennis privileges during the session and summer privileges on the same basis as undergraduates. (Present summer fee $5.00).

(c) Social skating privileges on the campus rink.

(d) Opportunities for exercise with various athletic clubs and eligibility for intercollegiate and other teams.

At Macdonald College, graduate students are required to live in residence and are entitled to medical attendance, major operations excepted, on the same basis as other students in residence. Graduate students at Macdonald College are entitled to participate in the activities of the various organizations and have one representative on the Men's Residence Committee. Graduate students who desire to take part in Athletics may do so upon the payment of the regular undergraduate subscription. A special fee is payable by those who desire student publications and the use of tennis courts.

23. All students in the Faculty of Graduate Studies and Research are members of the Graduate Students' Association.

24. All fees are payable in Canadian currency.

RESEARCH FELLOWS

This title is intended to provide recognition, and status on the University records for investigators of professorial calibre who are not members of the staff of McGill University but are attached temporarily to a department on the ground that their assistance is *required in the interests of a current programme of research.*

A Research Fellow must not be proceeding to a degree, and any money grant that he receives must be either from McGill University or from some other institution for the advancement of learning and must be paid solely for the advancement of the research that he is pursuing and not for instruction or demonstration.

RESEARCH ASSOCIATES

The title of Research Associate is intended to apply to investigators of academic standing junior to that of the Research Fellow. They must not be proceeding to a degree, nor may they be members of the staff of McGill University, but the receipt of a grant or scholarship from McGill University or any other institution for the advancement of learning shall not be considered to disqualify them for this title.

GENERAL RULES CONCERNING HIGHER DEGREES

1. Members of the teaching staff of the University who are also students in the Graduate Faculty and who give more than three hours of lectures or six hours of conference work or twelve hours of supervisory work in laboratories per week; or any student doing an equivalent amount of work inside or outside the University, may not obtain the Master's degree in one year, and will require at least four years for the degree of Ph.D. Members of the teaching staff only may apply in writing to the Dean, on the written recommendation of the Chairman of the Department, to pay half fees for each of two years that shall count as one year of residence.

2. No full-time student registered in any professional Faculty of the University may register for a graduate degree without the special permission of both Faculties in full session.

3. A candidate with a given higher degree may be permitted to proceed to a second degree of the same kind, but in another subject, provided that the usual requirements for the degree are entirely fulfilled and approved as usual by the Department concerned.

4. Major and Minor Subjects. A higher degree is granted in the Faculty of Graduate Studies essentially for work in one subject, known as the student's *major subject*. In certain cases, a *minor subject* may also be taken if this subsidiary subject is approved by the Department which has charge of the major subject and by the Chairman of the Department of the minor subject. A student should determine whether he is to take a minor subject or not by consulting the Chairman of the Department of his major subject.

5. COGNATE SUBJECTS. Certain allied or "cognate" courses may also be taken in conjunction with the major subject. These must be entered on the application form and signed by the Chairman of the Department concerned.

6. Each Department has full liberty to recommend or require a student to take a course in another Department.

CLASSIFICATION OF MARKS

100-75%	First Class
74-60%	Second Class
Below 60%	Failure

THE DEGREES OF MASTER OF ARTS (M.A.), MASTER OF SCIENCE (M.Sc.), MASTER OF ENGINEERING (M.ENG.), MASTER OF CIVIL LAW (M.C.L.), AND MASTER OF COMMERCE (M.COM.)

1. NORMAL PROCEDURE FOR THE MASTER'S DEGREE.

When the application of a student to enter the Faculty has been approved the student must fill out his registration forms (obtained from the Dean's office) in triplicate, under the direction of the Chairman of the Department of his major subject, and his director of research, both of whom will sign the forms. The three registration forms must be completed and submitted to the Dean for approval by the Faculty before October 2nd. Fees must be paid before October 16th, as soon as the registration forms have been marked approved by Faculty and returned.

Examinations. The student must pass the examinations of the courses he has taken and the marks or classes he obtains are part of his qualifications for the degree. All courses entered on the application forms are for examination, unless otherwise stated.

Thesis. He must also present a thesis on some topic connected with his major subject. The title of the thesis must have been previously submitted to the Chairman of the Department concerned for his approval in writing. It must be in some measure a contribution to knowledge and must also be written in good literary style. *For further information regarding theses, see page 752.*

Residence. At least one full session or two half-sessions of resident study at McGill University is required for a Master's degree.

2. SPECIAL CONCESSIONS FOR CIVIL SERVANTS.

With regard to the M.Sc. and M.Eng. (which may be the first year of the Ph.D. course), the following concessions are approved:

(1) Candidates for the degrees of M.Sc. or M.Eng. who are graduates of McGill University and have had two or more years' experience in a Government Department, performing as their main duty, work of the same type as that proposed for research, may, on recommendation of a Department and with the approval of the Faculty in full session, have their residence requirements reduced to one-half session only. It is understood that these candidates must take the usual final examination in all subjects required. The full sessional fee is payable.

No special concessions can be made to Civil Servants who are graduates of universities other than McGill.

(2) A Government laboratory may be approved by the Faculty as a research institution (see page 749).

3. THE DEGREE OF MASTER OF ARTS.

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Arts is provided in the following Departments of study, which rank as "subjects":—

*Botany	*Geological Sciences
*Chemistry	German
*Chemistry (Agricultural).	History
Classics	Mathematics
Economics and Political Science	Physics
Education	Philosophy
English Language and Literature	Psychology
French Language and Literature	Sociology
*Genetics	*Zoology

Certain Theological studies may be taken as a cognate subject only. (See page 800).

Candidates must hold the degree of B.A. They must have obtained at least a second class in an Honours course at McGill University, or its equivalent elsewhere in the subject or subjects which they propose to study.

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*May not be selected as a major subject for the M.A. degree.

4. The Degree of Master of Science.

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Science is provided in the following Departments of study:

Agronomy	Horticulture
Anatomy	Mathematics
Bacteriology and Immunity	Neurology and Neurosurgery
Bacteriology (Agricultural)	Nutrition
Biochemistry	Parasitology
Botany	Pathology
Chemistry	Pharmacology
Chemistry (Agricultural)	Physics
Entomology	Physiology
Experimental Medicine and Surgery	Plant Pathology
Genetics	Psychology
Geological Sciences	Zoology

Candidates must hold a Bachelor's degree with at least second class in an Honours course at McGill University, or its equivalent. Candidates with an M.D. degree must have attained high standing.

5. The Degree of Master of Engineering.

Instruction for the degree of Master of Engineering is given in the following Departments of study, which rank as "subjects", in which definite courses may be selected:

Chemical Engineering
Civil Engineering
Electrical Engineering
Mechanical Engineering
Metallurgical Engineering
Mining Engineering

Candidates must hold the Degree of Bachelor of Engineering, or an equivalent degree, and their undergraduate academic rank must, in general, be equivalent to high second-class standing.

The establishment of the Degree of Master of Engineering does not prevent a properly qualified holder of the Degree of Bachelor of Engineering, or the equivalent, from proceeding to the Degree of Master of Science in pure science.

6. The Degree of Master of Civil Law.

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Civil Law is provided in the following Departments of study which rank as "subjects."

Roman Law

Civil Law

Commercial and Maritime Law

Public Law

(Courses in all subjects will not necessarily be offered each year.)

Candidates must hold the degree of B.C.L. from McGill University, or its equivalent. They must be well qualified students who have obtained at least second class honours in the subject which they propose to take and in the course as a whole.

One only of the above subjects may be taken.

Each candidate is required to take at least one course in his subject involving at least one year of resident study.

In addition he is required to meet in personal conference, at least once a week, the professor under whose supervision he is preparing his thesis.

For further details consult the Secretary of the Faculty of Law.

7. The Degree of Master of Commerce.

Candidates must hold the degree of B.Com. from McGill University, with at least a creditable average second-class standing, and with at least second-class standing in the required courses in Economics; graduates of other universities must possess equivalent qualifications, especially in Economics.

Applications for admission must be approved by the Director of the School of Commerce and by the Chairman of the Department of Economics.

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

1. Candidates for the degree of Doctor of Philosophy must hold the degree of B.A. with Honours, or B.Sc. with Honours, or B.Eng. or B.Sc. (Agr.) or M.D., with at least good second-class standing in each case, from McGill University, or some equivalent qualification.

2. They must follow a course of at least three years' resident study at a University or other institution of higher learning or research. Of these three years, at least one year for graduates of McGill and two years for candidates who are not graduates of McGill, must be spent at this University, including preferably the final year. The other years may be spent at institutions approved by the Faculty. The Faculty may make special exceptions to these general regulations concerning residential study.

A student who has obtained his Master's Degree at McGill University or at an approved institution elsewhere, and is proceeding to a Ph.D. counts the work done for the former as the first year of his resident study for the Doctor's degree.

3. Candidates must select one major subject. Minor or cognate subjects may be selected, with the consent and approval of the Department in which the major subject is taken, subject to the advice and agreement of the Chairmen of the other Departments concerned.

Courses leading to the degree of Doctor of Philosophy are offered in the following as major subjects:—

Agricultural Chemistry
Anatomy
Bacteriology and Immunity
Biochemistry
Botany
Chemistry
Economics and Political Science
Endocrinology
Entomology
Experimental Medicine and Surgery
Genetics
Geology
History
Neurology and Neurosurgery
Parasitology
Pathology
Pharmacology
Physics
Physiology
Plant Pathology
Psychology
Zoology

In special cases, Departments may be able to provide courses in other subjects which will lead to this degree. Candidates, therefore, desiring to proceed to the degree of Doctor of Philosophy in other Departments than those mentioned above should make direct application to the Dean of Graduate Studies and Research, asking whether courses in such subjects can be provided.

4. The course of study which the candidate desires to follow must, before he enters upon it, have been submitted to the Chairmen of the several Departments concerned and have received their approval.

5. *Preliminary Examination.* The first two years include instruction, training and direction in the candidate's field of study, with the object of giving him a knowledge of his particular subject and its relation to cognate branches of learning and of preparing him for independent investigation.

The candidate's preliminary examination is held at the end of the second year, or at a time selected by the Chairman of the major Department, unless otherwise specified by Departmental regulations approved by the Faculty. This examination covers all graduate work previously taken by the candidate, including his prescribed reading and may also include any work fundamental thereto. The candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. The examination is both written and oral.

The result of this examination determines whether the candidate is allowed to proceed to his degree. The final year is devoted chiefly to the preparation of his thesis.

After his thesis has been received and approved, a special and more searching final oral examination on the subject of his thesis and subjects more intimately related to it is held. This is conducted in the presence of a Committee of at least four members of the Faculty of Graduate Studies.

6. Every candidate must satisfy the Faculty of Graduate Studies and Research that he has a reading knowledge of French and German.

The language examinations are set by the Department in which the candidate is taking his major; the passages chosen are typical of the literature of his major subject, and the Department concerned may conduct and correct the examination, if it so desires.

Candidates are advised to take one language at the commencement of their first year and the other at the commencement of the second year, but both language tests should be passed not later than one month before the preliminary Ph.D. examinations. These examinations are held during the first ten days of December without fee. Examinations may be held at other dates under exceptional circumstances, and with the approval of the Dean, in which case a fee of $5.00 per candidate must be paid in advance, for each examination.

7. *Thesis.* The thesis for the Doctor's degree must display original scholarship expressed in satisfactory literary form and be a distinct contribution to knowledge. The subject of this thesis must have been approved, in writing, by the Chairman of the Department in which the major subject is taken, and also by the Faculty of Graduate Studies and Research, at least twelve months before the date of the final examination.

8. Three copies of the thesis must be provided by the candidate.

9. The regulations concerning theses are stated on pages 752 to 754, Special regulations for the Ph.D. in Economics are stated on page 766 and in History on pages 780, 781.

REGULATIONS FOR THE DEGREE OF DOCTOR OF CIVIL LAW (D.C.L.)

Any person who has graduated as a B.C.L. from McGill University may after seven years from such graduation proceed to the degree of Doctor of Civil Law, provided he has distinguished himself by eminent services in the domain of law, and provided he has written a thesis on a subject previously approved by the Faculty of Graduate Studies and Research, and that such thesis has been adjudged by that Faculty to be a valuable contribution to legal science. The candidate may, instead of a thesis, submit a published book or books dealing in a scientific way with some branch or branches of law. A very high standard is required for this degree, but it does not call for any resident graduate study in the University.

REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC (Mus.Doc.)

Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the degree of Bachelor of Music, may proceed to the degree of Doctor of Music, the requirements for which are a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the form of a concert overture, must contain some eight-part writing and fugal treatment, and must be scored for a full orchestra. If preferred, a candidate may present a composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying not less than forty minutes in performance. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition is necessary, together with a critical knowledge of the full scores of certain prescribed work.

Graduates of other Universities may, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus.Bac., if they wish to proceed to the further degree of Mus.Doc., provided they secure permission to do so through the Faculty of Graduate Studies and Research from the Senate of the University, the period of seven years referred to above to be counted from the date on which they received the degree of Bachelor of Music from their own University.

Requirements for Mus. Doc.

Harmony up to eight parts; Counterpoint up to eight parts (Strict and free); Instrumentation; Canon four and two; Fugue up to five parts; History of Music; Form and Analysis based on knowledge of Beethoven's nine symphonies, Brahms' second and third symphonies, Strauss' tone poem Death and Transfiguration, Wagner's Meistersinger and Tannhauser Overtures, either Bach's St. Matthew Passion or Beethoven's Mass in C, and Mozart's Magic Flute or Wagner's Parsifal.

REGULATIONS CONCERNING THESES

In the case of students who wish to graduate at the Spring Convocal tion, all theses for a Master's degree which do not involve experimenta- work, must be handed to the Dean of the Faculty of Graduate Studies and Research not later than April 20th. Theses for the degree of Ph.D. must be handed in on or before April 15th.

All theses for the degree of Master of Science, or of Engineering, which involve experimental work, must be in the hands of the Dean not later than April 29th.

The theses of students who wish to graduate at the Fall Convocation must be in the hands of the Dean of the Faculty of Graduate Studies and Research not later than September 3rd.

All theses submitted by successful candidates for higher degrees are bound and placed in the Library. Candidates for such degrees are therefore advised that the Faculty of Graduate Studies and Research requires these to be prepared in accordance with the following specifications:—

(1) The paper must be of a good Bond grade, and is to be of uniform size, 8½ x 11 inches.

(2) The left-hand margin is to have a uniform width of about 1½ inches. Drawings larger than the prescribed page should be folded in the manner most suitable for binding.

(3) Theses must be typewritten and in triplicate. Ultimately one copy is deposited in the McGill Library, one in the Departmental Library, and one is returned to the candidate.

(4) No binding is necessary, but the loose sheets must be placed, unfolded, in a manila envelope in the order of their pagination. On the outside of each envelope must be written clearly the name of the candidate, title of thesis, degree, date, and Copy I, II or III.

(5) Copies of the thesis must be double-spaced and free from typographical and other errors, otherwise they will be returned to the candidate for revision, with possible consequent delay in the granting of the degree.

(6) Every thesis should have an abstract and a sufficient table of contents, and a thorough bibliography on the subject. Scientific theses should also contain an introductory historical statement of previous work or investigation, and a summary. In the case of the Ph.D. degree, there should be a clear statement of the claim of original work or contribution to knowledge made by the author.

(7) The candidate is required to declare, generally in the preface and specifically in the text of the thesis, the extent to which assistance has been given by members of the staff, fellow-students, technicians, or others, in the collection of material, the design and construction of apparatus, the performance of experiments, and the preparation of the thesis in general. This regulation does not apply to the normal supervision and advice given by the director of the candidate's research.

(8) In the case of candidates presenting themselves for the degree of Doctor of Civil Law, three copies of the book or books, or, should a thesis be substituted, three typewritten copies of the thesis, must be submitted to the Dean of the Faculty of Graduate Studies and Research not later than February 14th of the year in which the candidate desires to take the degree.

(9) If a thesis is rejected it cannot be submitted again, in a revised form, more than once.

SUMMARIES OR ABSTRACTS OF THESES

(10) Three copies of a statement must also be presented, on a separate sheet, giving the author, title of thesis, and a summary not exceeding 150 words.

COURSES OF GRADUATE STUDY

DEPARTMENT OF AGRONOMY
(Macdonald College)

Professor.....ROBERT SUMMERBY
Assistant Professors.....L. C. RAYMOND, E. A. LODS
Lecturer.....J. N. BIRD

The Department is well equipped to conduct research with crop plants particularly in relation to breeding.

All the important periodicals, scientific journals, books and bulletins on Agronomy and related subjects, are available to students in either the McGill, Macdonald College or Agronomy Department Libraries.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Candidates who take Agronomy as a major subject must have had a good training and achieved high standing in Agronomy, Botany, Chemistry, and Genetics. Those who have not had adequate training in these subjects must rectify any such deficiency.

A. EXPERIMENTATION.
One lecture and two laboratory periods per week, second term.
Professor Summerby.

B. HAY AND PASTURE CROPS.
Two lectures and two laboratory periods per week for one term.
Mr. Bird.

C. CORN AND ROOT CROPS.
Two lectures and two laboratory periods per week for one term.
Professor Raymond.

D. GRAIN CROPS.
Three lectures and three laboratory periods per week for one term.
Professor Lods.

E. SEMINAR.
Fortnightly, during the year. Professor Summerby and Staff.

A student must take course E and two courses from A, B, C, and D. In addition, he must take at least one other course selected from the above, or in a cognate subject. Other cognate courses may be added or required on the advice of the director of research.

It is recommended that candidates spend at least one summer in the Department before or during the course.

DEPARTMENT OF ANATOMY

43/44

Professor of Anatomy.....C. P. MARTIN
Assistant Professor of Anatomy.....D. S. FORSTER
Associate Professor of Histology....H. SELYE
Lecturer in Histology.....C. P. LEBLOND
Research Associate.....C. M. C. MASSON

The department offers facilities for research work leading to the degrees of Master of Science and Doctor of Philosophy.

QUALIFICATIONS FOR ADMISSION

All candidates should consult the Chairman of the Department before entering these courses.

Candidates must have attained high standing in Anatomy 1 and 2 or in Microscopic Anatomy 5 and Embryology 7 at McGill, or the equivalent. They must have obtained a B.Sc., B.A., or M.D. degree.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. Advanced laboratory work in Anatomy.

and 2. Experimental Morphology (Anatomy 6).

or 3. Physical Anthropology (Anatomy 4).

5. Cognate Subjects:—Depending on the particular branch of Anatomy in which any candidate may be working, the Chairman of the Department can require him to attend any other course given in the University, subject to the consent of the Chairman of the Department concerned.

The thesis must be on some approved subject in Anatomy, Microscopic Anatomy or Experimental Morphology.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Following the work for the Master of Science degree, the student must specialize in either:—

(a) Macroscopic Anatomy, including Comparative Anatomy and Physical Anthropology.

or (b) Microscopic and Experimental Morphology, taking cognate courses in Cytology and Genetics.

A comprehensive examination will be held at the end of the second year.

The general rules of the Faculty concerning residence, examinations, research, and thesis requirements are stated elsewhere.

BACTERIOLOGY

Professor.....E. G. D. Murray
Associate Professor.....Frederick Smith
Assistant Professors.....T. E. Roy*, C. D. Kelly, D. S. Fleming
Lecturer.....W. H. Mathews*

Qualifications for admission to the Course.

(1) A B.Sc. degree with at least second class honours in Bacteriology and Immunity at McGill University, or its equivalent elsewhere.

or (2) An M.D. degree with high standing in Bacteriology, Pathology, and Immunity.

Courses and Other Facilities Available.

A. The more advanced lectures and classes given in the Department to the Science Division of the Faculty of Arts and Science, and to the Faculty of Medicine will be available to candidates for the M.Sc. degree.

B. Conferences will be held with candidates guiding them in their reading, helping with technique, and discussing the theory and practice of Bacteriology and Immunity, as well as of individual researches.

C. The practice of the Clinical Bacteriological Services in relation to the Hospitals will also be available to candidates as a means of instruction and a source of material for research and study.

Requirements for the M.Sc. and Ph.D. degrees (see pages 747, 748).

DEPARTMENT OF AGRICULTURAL BACTERIOLOGY
(Macdonald College)

Associate Professor.....P. H. H. Gray
Lecturer.....F. S. Thatcher

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Degree of Master of Science

A. Soil Microbiology.....Professor Gray
Reference book: Waksman: Principles of Soil Microbiology: 2nd edn. (Williams & Wilkins, Baltimore).

*On military service.

B. Food Microbiology.....Dr. Thatcher

C. Physiology of Micro-organisms.....Professor Gray
Text-book: Stephenson: Bacterial Metabolism, 2nd Ed. (Longmans).
Reference book: Buchanan & Fulmer: Physiology and Biochemistry of Bacteria (Williams & Wilkins, Baltimore).

D. Colloquium. (One hour weekly) Review of literature, discussion, and criticism.....The Staff

A minimum of one lecture and one colloquium hour, and six laboratory hours weekly in any one course will form the basis of instruction. Candidates are required to take Courses C and D, with either A or B.

DEPARTMENT OF BIOCHEMISTRY

Professor.....D. L. Thomson
Assistant Professors.....O. F. Denstedt, R. D. H. Heard
Sessional Lecturer.....C. Gwendoline Toby
Research Associate.....Dorothy Osborne

Candidates who have satisfactorily completed the Honours course in Biochemistry as undergraduates may present themselves for examination for the M.Sc. degree at the end of one year's graduate work in the Department; all others are expected to spend two years in the Faculty o Graduate Studies and Research before going forward for the degree. Candidates for the Ph.D. degree must pass a general examination in Biochemistry, but will be judged principally by the ability they display in research. Candidates for either degree are expected to attend Courses A and B (below) and may, according to their qualifications, be required to take undergraduate courses 2, 3, 4 or 5 in Biochemistry or other cognate subjects. (See Arts and Science Announcement).

A. Recent Advances in Biochemistry.
Lectures: Friday at 5.
Text-books.—Peters and van Slyke, "Quantitative Clinical Chemistry" (Williams & Wilkins); Allen, "Sex and Internal Secretions" (Williams & Wilkins); Luck, "Review of Biochemistry" (Stanford Univ.); Harrow and Sherwin, "Text-Book of Biochemistry" (Saunders).

B. Advanced Endocrinology.
(Given jointly with the Departments of Anatomy and of Experimental Medicine.)
Lectures: Monday and Thursday at 5.
Prerequisite: Biochemistry 2.

DEPARTMENT OF BOTANY

Professor.....George W. Scarth
Assistant Professors.....R. D. Gibbs, Muriel V. Roscoe

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for Higher Degrees

A. Cellular and Experimental Plant Physiology.
Friday 2 and 3. Laboratory hours to be arranged.
Professor Scarth.

*B. Plant Biochemistry.
Tu., Th., at 11. Laboratory hours to be arranged. Professor Gibbs.

C. Biochemical Plant Physiology.
Two lecture hours per week to be arranged.....Professor Gibbs.

*D. Micro-technique and Histology.
Half-course.
Hours to be arranged. Professor Roscoe.

*E. Technical Botany (for cellulose chemistry students).
Next given in 1944-45. Botany 1B or equivalent pre-requisite.
Full course. Hours to be arranged.....Professors Roscoe and Gibbs.

F. Special Topics.
Full course or half course.
Prescribed reading and conference. The Staff.

Biological Colloquium.

Requirements for the Master's Degree

In addition to writing a thesis the candidate must satisfy requirements in two full courses (or the equivalent in half courses) from the above list and also attend the colloquium. On the advice of the director of research one Cognate course may be substituted.

Requirements for the Degree of Doctor of Philosophy

Second year students will take one of the above courses which they did not follow during their M.Sc. year. Further instruction is given mainly by way of conference and direction of study. Most weight is laid on the thesis.

DEPARTMENT OF CHEMISTRY

Professors.....O. Maass, W. H. Hatcher

Associate Professors.....J. B. Phillips, J. H. Mennie, W. H. Barnes

Assistant Professors.....C. A. Winkler, R. V. V. Nicholls

Lecturers.....J. H. Ross, R. Boyer

Adequate laboratory and library facilities are available for the courses listed below and for research. The Pulp and Paper Research Institute affords ample facilities for research on the structure and properties of carbohydrates, cellulose, lignin, wood, and pulp and paper.

*Open to honours undergraduates.

Courses for Higher Degrees

A. Advanced Organic.
Three hours per week.....Professor Nicholls.

B. Structural Organic Chemistry.
Two hours per week.....The Staff.

D. Advanced Inorganic.
Two hours per week, first term.....Professor Mennie.

E. Advanced Inorganic.
Two hours per week, second term.....Professor Mennie.

F. Advanced Physical.
(a) Properties of Matter.....2 hrs. per week, 1st term
(b) Physico-chemical Equilibria.....2 hrs. per week, 2nd term
(c) Phase Rule.....1 hr. per week, 1st term
(d) Atomic Structure and Radio-activity..1 hr. per week, 2nd term
Professors Maass and Winkler.
Any or all of these sub-divisions, as well as a course in theoretical calculations, may be required.

G. Colloid Chemistry.
One hour per week.....Professor Winkler.
Laboratory courses are available in all of the above when required.

H History of Chemistry. (Not given in 1943-44).
One hour per week.....Professor Barnes.
The above courses are available for Honours students in Arts and Science and students in Chemical Engineering.

J. Colloquium—Organic.
One hour per week. Professors Hatcher, Nicholls, and Dr. Boyer.

K. Colloquium—Inorganic and Physical.
Two hours per week.....Professors Maass and Winkler.

L. Cellulose, Lignin, and Related Compounds.
One hour per week.....

M. Physical Properties and Chemical Constitution of Organic Compounds. (Not given in 1943-44).
One hour per week.....Professors Barnes and Hatcher.

N. Chemical Physics.
Two lectures per week.....Professor Winkler.
The subject matter varies from year to year. Topics include chemical kinetics, photochemistry, molecular structure, quantum mechanics, etc.

O. Electrochemistry.
This course is available for Honours students in Arts and Science and students in Chemical Engineering.
One hour per week.....Professor Mennie.

P. THEORY OF HYDROGEN ION MEASUREMENTS.

One hour per week, First term.....Professor Mennie.

Q. THERMODYNAMICS.

This course is also available for Honours students in Arts and Science and for students in Chemical Engineering.

Two hours per week.....Professor Winkler.

R. CHEMICAL ENGINEERING.

Advanced topics. Two hours per week.....Professor Phillips.

S. RESEARCH METHODS OF ORGANIC CHEMISTRY.

Comprehensive review and classification of the reactions of Synthetic Organic Chemistry, the methods of isolating and purifying compounds. and the chemical means available for the proof of structure.

One lecture per week throughout the session....Professor Nicholls.

T. CHEMISTRY AND TECHNICOLOGY OF HIGH POLYMERS.

Part I: Synthetic Resins, Textiles, and Lastics: (1) Classification, (2) the chemistry of resin formation, (3) physical concepts of the resinous state, (4) the "perfect" resin, (5) detailed description of the principal industrial resins (tradenames, raw materials, synthesis, structure, properties, prices), (6) outlets for resins in the moulding, coating, textile, construction and other industries, (7) modified synthetic resins. Part II: (1) Natural resins (rosin, rubber, casein, etc.), (2) processed natural resins (ester gum, chlorinated rubber, cellulose esters, lignin, etc.).

One lecture per week throughout the session....Professor Nicholls.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE

I. Students are required to take examinations in (a) Organic, (b) Inorganic, (c) Physical, (d) Colloid Chemistry and other assigned courses, if any. Students are expected to have covered the subject matter of at least two of the above courses on entrance to the Faculty.

II. *Colloquium*—one per week.
Students are required to present and discuss in an acceptable manner papers dealing with fundamental and recent work.

III. *Special Graduate Lectures.*
Students are required to pass examinations on the subject matter of such lectures as relate to their particular work.

MASTER'S DEGREE IN CHEMICAL ENGINEERING

Students who hold a Bachelor's degree in Chemical Engineering have the option of studying for the Master of Science degree in Chemistry or the Master of Engineering degree in Chemical Engineering.

The following courses are required for the Master of Engineering degree:

I. Advanced Chemical Engineering R; with one of the following: Organic Chemistry A, Inorganic Chemistry D and E, Physical Chemistry F.

II. One of the following: Chemical Physics N, Thermodynamics Q, Theory of Heat F; Cellulose L with Colloid Chemistry G.

III. Chemical Engineering Colloquium.

IV. Thesis on a Chemical Engineering subject.

Requirements for the Degree of Doctor of Philosophy

I. The research work in this Department may be conveniently considered under the following heads:—

(a) Organic Chemistry, (b) Inorganic Chemistry, (c) Physical Chemistry, (d) Colloid Chemistry, (e) Cellulose Chemistry.

One of these (under which the research falls) is designated the "principal subject" and each of the others a "secondary subject." Graduate students are required to take examinations in both "principal" and "secondary" subjects.

Principal Subjects:—Several examinations, both written and oral, are held. Students are responsible for the subject matter of all related lecture courses and assigned reading. Special courses given in other Departments may be assigned and examinations required.

Secondary Subjects:—The examinations are less rigorous than in the principal subject. The subject matter is more clearly defined and may include suitable lecture courses or texts, or both.

II. *Colloquium:*—As for M.Sc. see above.

Examinations in Chemistry

Principal Subjects:

1. An examination is held in May of the second year. Additional special examinations are held during the third year.

2. Candidates who fail in the May examination of the second year are required to repeat the year and the examination in the principal subject.

Secondary Subjects:

1. All examinations are available in May and September for candidates in the first two years.

2. A supplemental examination in any subject may be taken only on recommendation by the Department.

3. Examinations in all subjects must be passed by the end of September of the candidate's third year.

4. For candidates entering the third year, the September examinations are supplemental examinations only.

General:

1. A candidate who may wish to take examinations in any one or more secondary subjects in September of his entrance year is advised to consult the chairman of the Department as soon as possible.

2. In a secondary subject a Master of Science examination at McGill will be accepted as a Preliminary Ph.D. examination provided a standard required by the Department is obtained.

Also, candidates who believe they have the necessary qualifications may apply to the director of their research for exemptions from examinations in secondary subjects. Such qualifications include a high standing in an examination taken at McGill or other University in the secondary subject. The director of the candidate's research may grant this exemption only with the approval of the Department.

DEPARTMENT OF CHEMISTRY

(Macdonald College)

Professor.....W. D. McFarlane

Assistant Professor.....W. A. DeLong

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for Higher Degrees

A. Chemistry of Soils.....Professor DeLong.
Two lectures per week—second term. (Given 1943-44).

B. Plant Biochemistry.....Professors DeLong and McFarlane.
Two lectures per week—second term.

C. Chemistry of Foods and Nutrition.....Professor McFarlane.
Two lectures per week—both terms.

Special laboratory work (three hours per week) may be required in any of these courses.

Requirements for the Master's Degree

1. Students may elect to conduct their research in Soil and Plant Chemistry (Group I) or in Physiological Chemistry (Group II).

2. Unless in special circumstances students are required to take the examinations of Group I or Group II.

Group I.—Major subjects—Courses A and B.

Cognate subjects—Either Advanced Organic or Advanced Physical Chemistry (McGill Department of Chemistry Courses A and F); Plant Physiology (Department of Botany Course B).

Group II.—Major subject—Course C.

Cognate subjects—Advanced Organic Chemistry (McGill Department of Chemistry Course A) and Recent Advances in Biochemistry (McGill Department of Biochemistry Course A).

3. Students are required to attend and participate in the department seminars.

Requirements for the Degree of Doctor of Philosophy

Special arrangements may be made for the Ph.D. degree in association with the McGill Department of Chemistry. Agricultural Chemistry is regarded as the principal subject and courses taken in the other departments mentioned in Regulation 3 (page 749) as secondary subjects.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

Professors.....R. E. Jamieson, Ernest Brown, R. DeL. French

Associate Professor.....G. J. Dodd

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Master's Degree

A. Statically Indeterminate Stresses.
First term, two hours tutorial, and six hours computation and reports.
Professor Jamieson.

B. Technical Elasticity.
First term, two hours tutorial, and six hours computation and reports.
Professor Jamieson.

C. Secondary Stresses.
First term, two hours tutorial, and six hours computation and reports.
Professor Dodd.

D. Highway Engineering.
Four hours tutorial, and twelve hours computation and reports.
Professors French and McKergow and staff.

Candidates for the M.Eng. degree will be expected to take at least two courses in addition to thesis work.

DEPARTMENT OF CLASSICS

Professors.....{William D. Woodhead
C. H. Carruthers

Associate Professor.....A. M. Thompson

Courses for the Degree of Master of Arts

Greek A: Greek Lyric Poetry. Readings from the Anthologia Lyrica Græca and other texts.
Two hours colloquia.....Professor Woodhead.

Greek B: History of the Epigram.
Two hours colloquia.....Professor Carruthers.

Greek C: The Republic of Plato.
Three hours.....Professor Woodhead.

Greek D: Aeschylus, Oresteia.
Two hours colloquia.....Professor Woodhead.

Latin A: Vergil, Aeneid.
Three hours.....Professor Thompson.

Latin B: Roman Satire.
Three hours.....Professor Thompson.

Latin C: Latin Epigraphy and Palæography.
Two hours colloquia.....Professor Carruthers.

Latin D: Roman Tragedy.
Two hours colloquia.....Professor Woodhead.

Courses in Comparative Philology

Professor.....C. H. Carruthers

A. Introduction to the Study of Language.

B. Latin Historical Grammar.

C. Greek Historical Grammar.

D. Elementary Sanskrit.

E. Greek Dialects.

F. Oscan and Umbrian.

All courses are colloquia of two hours weekly.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

Professors..... J. C. Hemmeon, J. P. Day, B. H. Higgins, B. S. Keirstead

Assistant Professors..... J. T. Culliton*, E. F. Beach

Sessional Lecturer..... P. F. Vineberg

Courses for the Degree of Master of Arts and Master of Commerce

A. Contemporary Economic Theory.
First term.....Professor Hemmeon and others.

B. World Economic Survey Since the Great War.
Second term.....Professor Day.

C. Economic Journal Group.....Members of the Department.

Students who have completed three full courses or their equivalent in the Department of Economics at Macdonald College, and have also completed at least two full courses or their equivalent in the Department of Economics and Political Science, with at least second class honours, are permitted to proceed toward the degree of Master of Arts.

In addition to these courses, a thesis must be written on a subject approved by the Department. The thesis shall constitute the major part of the work done.

Courses for thr Degree of Doctor of Philosophy

1. First year of study:—The M.A. course and successful candidacy for the M.A. degree.

2. Second year:—An approved course of study at a University other than McGill in continuance of the work on the thesis subject already selected.

3. Third year:—Resident study at McGill under the general supervision of the Department, with no fixed hours or fixed units, the work to bear on the thesis subject, such thesis to represent a genuine and useful contribution to the literature of Economics and Political Science.

4. The order of study of the Second and Third Year may be reversed.

5. The holder of a position on the staff of McGill may count his years in such a position as equal to resident study in the ratio of two teaching years to one of study.

*On Military Service.

DEPARTMENT OF EDUCATION

Professor.....JOHN HUGHES
Assistant Professor.....A. B. CURRIE

CONDITIONS OF ADMISSION:

Candidates for the degree of M.A. in Education must show (a) that they have satisfied the general conditions for registration as candidates for the M.A. degree as laid down on page 746 of the Announcement, or achieved distinction in the general course; (b) that they have attained a high standard (i.e. at least good second-class standing) in the work of the graduate year of training for the Teachers' High School Diploma, or its equivalent. On occasion, however, specially selected students may be permitted to work concurrently for the High School Diploma and for the M.A. degree in some relevant subject; in such cases the work for the M.A. must be spread over two years.

Candidates must also have done work in Psychology that is adequate for the needs of the M.A. course in Education, or else must complete an approved course in Psychology as part of their M.A. course.

COURSES FOR THE DEGREE OF MASTER OF ARTS

Satisfactory completion of the following courses and studies is required.

A. Seminar courses in two of the following:—
   (1) Secondary Education.*
   (2) Comparative Education.
   (3) Bilingual Education.

B. Studies of
   (1) The History of Education in Canada.
   (2) A Selected Period or Topic in the General History of Education.

C. An approved course in Philosophy, or Psychology (prerequisite—two courses, including Course I).

D. Thesis.

43/44

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor.....CLARENCE V. CHRISTIE
Associate Professor.....G. A. WALLACE
Assistant Professor.....E. G. BURR
Lecturers.....W. H. SCHIPPEL, F. S. HOWES

Adequate laboratory and library facilities are available for the courses listed below and for research.

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*In special cases candidates may substitute an approved course in Educational Psychology for this requirement, but they must then take the Philosophy course specified under C.

Courses for the Degree of Master of Science or Master of Engineering

A. Advanced Mathematics.

Lectures, two hours a week

B. Electrical Physics.

Lectures, two hours

C. Electrotechnics.

Lectures, two hours.
Colloquium, two hours.

The following courses are offered (each two hours for one term):—

(a) Design of Electrical Machinery. Professor Christie.

(b) The Protection of Electrical Power Systems. Professor Burr.

(c) Stability of Electrical Systems under normal and transient conditions; determination of short-circuit currents; design of generators and excitation systems for maximum stability.
Professor Christie and Mr. Schippel.

(d) Inductive Co-ordination of Power and Communication Systems.
Professors Christie and Wallace.

Evening Courses in Electrical Communication Engineering leading to the Degree, Master of Engineering

The following courses will be given in the evenings if a sufficient number of candidates apply.

E. Radiation Theory.....Dr. W. H. Watson (Dept. of Physics).

(Course G or its equivalent is prerequisite to course E.)

F. Communication Networks.
Dr. H. G. I. Watson (Dept. of Physics).

G. Mathematical Methods in Engineering.

Professor F. M. Wood (Dept. of Civil Eng.) and Dr. G. Pall (Dept. of Maths.).

(Differential Equations 201 or its equivalent is prerequisite to course G).

H. Communication Apparatus Design

Dr. F. S. Howes in collaboration with a number of industrial designers.

I. Advanced Radio Engineering.....Dr. F. S. Howes.

J. Advanced Wire Transmission Theory.
Professor G. A. Wallace.

K. Inductive Co-ordination of Power and Communication Systems.....Professor G. A. Wallace.

Each of the courses E to I is covered in one two-hour lecture per week throughout the session. Courses J and K are covered in one two-hour lecture per week for one term only.

For the Master's degree in Communication Engineering four two-term courses must be completed, of which one must be course (G) or its equivalent.

Thesis: In addition to the courses required for the Master's degree in either Electrical Power or Communication Engineering, a thesis must be submitted based on research or development work carried on by the student in one or other of these fields. The subject of the thesis must be approved by the Department of Electrical Engineering at the beginning of the year in which it is to be submitted.

DEPARTMENT OF ENGLISH

Professors.....{Cyrus Macmillan, Harold G. Files
Associate Professor.....A. S. Noad*
Assistant Professor.....T. F. M. Newton*

Courses for the Degree of Master of Arts

A. Old English.

Prerequisite:—English 12 (in the undergraduate course).

Two hours.....

B. The English and Scottish Popular Ballads, with some attention to Canadian Folk-songs and Folk-tales and their relation to those of Europe. Lectures and theses.

Two hours.....Professor Macmillan.

C. Chaucer.

Prerequisite:—English 14 (in the undergraduate course).

Two hours.....
(Not given in 1943-1944).

*On Military Service.

D. The Drama in England from 1660 to the Present Time.
Two hours.....Professors Macmillan and Newton.
(Not given in 1943-1944).

E. Pre-Shaksperian Drama.....
(Not given in 1943-1944).

*F. Shakspere (Six Plays).
Mon., Wed., Fri., at 10.....Professor Macmillan.

*G. English Poetry from 1798 to the Present Time.
Mon., Wed., Fri., at 11.
Professor Macmillan, Professor Noad and an Assistant.

H. English Novelists, from Richardson to the Present Time.
Tu., Th., Sat., at 10.....Professor Files.

*I. The English Drama, 1590-1642.
Two hours.....Professor Macmillan.

*J. Old English.
Mon., Wed., Fri., at 2.....

*K. The Technique of the Drama.
Lectures and demonstrations in Moyse Hall, Tu., at 10 a.m.
Laboratory hours to be arranged.
Mr. Dando, Miss Jackson and Assistants.

*L. Chaucer.
Tu., Th., Sat., at 12.....

*M. Comparative Literature.
The Influence of English Literature upon the Continent of Europe in the 18th and 19th Centuries.
Three hours.....
(Not given in 1943-1944).

*N. Comparative Literature.
A study of some literary types from the Renaissance to the present day, with particular reference to the influence of Continental Literatures upon English.
Tu., Th., Sat., at 9.....

*Courses marked with an asterisk are undergraduate Honours courses in the Faculty of Arts and Science, which may also be followed by graduate students who have not already taken them.

O. MEMOIRS AND MEMOIR WRITERS AND EPISTOLARY LITERATURE, LITERATURE OF PERSONAL REVELATION.
An intensive study of special problems.
Two hours.....Professor Noad.
(Not given in 1943-1944).

P. THE DEVELOPMENT OF THE ENGLISH PERIODICAL.
Two hours.....
(Not given in 1943-1944).

Q. MYSTICAL AND OTHER RELIGIOUS LITERATURE IN ENGLISH DURING THE LATER SEVENTEENTH AND THE EIGHTEENTH CENTURIES.
Two hours.....Professor Files.

R. LITERARY CRITICISM.
Two hours.....Professor Files.

S. SHAKSPERE. A study of special topics.
Two hours.....Professor Macmillan.

T. AN ADVANCED COURSE IN THE TECHNIQUE OF THE DRAMA.
Prerequisite:—Course K or its equivalent.
Two hours and laboratory periods.
(Not given in 1943-1944).

U. THE LITERATURE AND CULTURE OF THE RENAISSANCE.
Two hours.....Professor Noad.
(Not given in 1943-1944).

V. SPECIAL STUDIES IN RESTORATION LITERATURE.
Two hours.....Professor Newton.
(Not given in 1943-1944).

W. A SPECIAL STUDY OF THE FIELD IN WHICH THE THESIS IS WRITTEN.
Professors Macmillan and Files.

X. SPECIAL STUDIES IN 18TH CENTURY LITERATURE.
Professor H. G. Files.

GRADUATE COURSES

Candidates for the degree of M.A., taking English as their only subject, must select three courses,—of which two must be from A to D (inclusive), and O to X, while J, or its equivalent, is compulsory, and (W), a course of special study in the field in which the thesis is written.

DEPARTMENT OF ENTOMOLOGY
(Macdonald College)

Professor.....W. H. BRITTAIN
Assistant Professor.....E. M. DUPORTE
Lecturers.....W. E. WHITEHEAD, F. O. MORRISON

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

A. TAXONOMY.

Each student must bring to the class a collection of the group of insects on which he desires to work, and may devote the greater portion of his time to a study of this group.

One lecture, one colloquium and four laboratory hours per week.
Professor DuPorte.

B. INSECT MORPHOLOGY.

One lecture, one colloquium and four laboratory hours per week.
Professor DuPorte.

C. ECONOMIC ENTOMOLOGY.

(a) *Principles of Insect Control.*

Two lectures per week and four colloquia.
Professor Brittain and Dr. Morrison.

(b) *Problems of Insect Control.*

Four laboratory hours per week throughout the year.
Professor Brittain and Dr. Morrison.

D. MEDICAL AND VETERINARY ENTOMOLOGY.

Two lectures, three laboratory hours per week for one term.
Professor DuPorte.

*E. ECOLOGY.

Two lectures a week, first term.....Professor DuPorte.

F. INSECT PHYSIOLOGY.

Two lectures and four laboratory hours per week.
Professor DuPorte.

G. SEMINAR.

One and one-half hours weekly.
Professors Brittain and DuPorte.

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*This course is also open to advanced undergraduates. (Given in 1943-1944.)

H. RESEARCH IN ENTOMOLOGY.

Four laboratory periods per week.

Professor Brittain and Dr. Morrison.

Students are recommended to take courses offered by the Department of Zoology either as part of their major work or as a minor or cognate subject.

M.Sc. Requirements: In addition to writing a thesis, a student is required to take either Course A or Course B and one other course in addition to the Seminar. Students who have not obtained honour standing in the undergraduate courses in Entomology at Macdonald College, or the equivalent, will be required to take a qualifying year prior to being admitted to graduate work.

Ph.D. Requirements: The Ph.D. in Entomology may be awarded after the following requirements have been completed:

1. The student must spend two years of resident study and research at Macdonald College, and another year, taken preferably between these two years, at an approved institution other than McGill.
2. The student is also required to spend the equivalent of two summer seasons in research work at a Government laboratory or other approved research institution.

DEPARTMENT OF EXPERIMENTAL MEDICINE 43/44

Professor.....J. C. MEAKINS*
Assistant Professor.....J. S. L. BROWNE
Research Fellow.....ELEANOR M. VENNING
Research Associate.....MARTIN M. HOFFMAN

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Candidates for a Master of Science degree in Experimental Medicine must have had a high standing in the courses for the degree of Doctor of Medicine, or, in the case of those candidates without an M.D. degree, at least second class honours in their Undergraduate courses, particularly in the subjects of Physiology and Biochemistry, and candidates for the degree of Doctor of Philosophy must have obtained a high standing in the Master of Science degree if this has been taken.

A. SEMINAR. Experimental Medicine.
One hour a week.....Dr. Browne.

B. LECTURES. A weekly Course on selected topics in Endocrinology and allied subjects.....Dr. Browne.

C. Conferences will be held with candidates, guiding them in their reading and for criticism of their research.

*On Military Service.

D. Cognate Subjects. Each student will be required to take certain Courses in cognate subjects, depending upon the special field of Medicine in which his research work is directed.

All candidates for this degree must take all of the above courses and devote the remainder of their time to experimental research, the accomplishment of which, as embodied in their thesis, will be the main consideration in recommending them for this degree.

Requirements for the Degree of Doctor of Philosophy

The above courses are continued throughout the first two years of graduate study while the final year is entirely devoted to research and this must be of a fundamental and far-reaching character.

Advanced Study

In addition to courses leading to the M.Sc. and Ph.D. degrees, the Faculty of Medicine offers opportunities for advanced study in the clinical field to properly qualified graduates who are willing to spend at least six months or a year on intensive work.

For information on such advanced study, graduates should apply to the Secretary of the Faculty of Medicine, McGill University.

DEPARTMENT OF FRENCH

Associate Professor.....J. L. Darbelnet
Assistant Professors.....Lucie Touren Furness
Louis d'Hauteserve
Sessional Lecturer.....Mme. P. L. Larivière

Courses for the Degree of Master of Arts

A. Comparative Literature. (Department of English, Course M).
Three hours.

B. La critique littéraire.
One hour.....Professor Darbelnet.

C. Montaigne.
One hour.....Mme. Larivière.

D. Exercices pratiques (Colloquia).
One hour.

*E. HISTOIRE DU ROMAN EN FRANCE.
Three hours. (Given in 1944-45).....Professor Darbelnet.

*F. HISTOIRE DE LA LANGUE FRANÇAISE.
One hour. (Given in 1943-44).....Professor d'Hauteserve.

*G. HISTOIRE DE LA POÉSIE LYRIQUE EN FRANCE.
Two hours. (Given in 1943-44).....Mme. Larivière.

*H. LA LITTÉRATURE FRANÇAISE CONTEMPORAINE.
Three hours. (Given in 1944-45).....Mme. Larivière.

I. LE CONTE DANS LA LITTÉRATURE FRANÇAISE.
One hour. (Given in 1943-44).....Professor Furness.

Candidates for the Master's degree in French only will take Course A (if not already taken), B, C and D, E or H, and I.

Those taking French as a Major will omit A and either B or C.

Those taking French as a minor will take D and one of the one-hour courses.

The M.A. thesis must be written in French.

Students from other Provinces and States where the opportunities of speaking French are small cannot normally obtain an M.A. in less than two years.

REGULATIONS FOR THE MASTER OF ARTS DEGREE

1. All work carried on towards an M.A. degree in the French Summer School is under the control and supervision of the Department of French in the Faculty of Graduate Studies of the University.

2. Requirements for the Master's degree:

   (a) The student must hold the degree of B.A. from McGill University or from another institution of recognized standing, with at least second class honours in French, or the equivalent of second class honours in French as granted by McGill University—which must include an ability to speak French fluently, and a sound knowledge of French literature.

   (b) A student qualified as in 2 (a), must complete four sessions in the Advanced Section of the French Summer School with at least second class standing in the final examinations of each session.

   (c) The student must prepare and present a thesis, written in French, which must be in some measure a contribution to knowledge. Its preparation is carried out under the direction of the French Department.

*These are also Honours courses in the Faculty of Arts and Science.

3. Students applying for admission to the Advanced Section of the Summer School, with the intention of proceeding towards the M.A. degree, should, as soon as possible, have a transcript of their academic record sent for appraisal to the Director of the School.
Students whose record is considered the equivalent of the B.A. degree with at least second class honours in French as granted by McGill University will be notified of their eligibility for future admission to the Faculty of Graduate Studies of the University. At the end of their second session they will be allowed to register in that Faculty as candidates for the M.A. degree, provided they have completed the course requirements for the first two sessions.
Students who hold a B.A. degree but whose record is not considered the equivalent of the McGill B.A. with at least second class honours in French, may be allowed to make up the deficiency by taking more courses during their third and fourth summer session. They will also register in the Graduate Faculty at the end of the second summer session, provided that they have obtained at least a high second class standing in the courses of the first two summer sessions.

4. In the case of students of honours standing, the first summer session consists of five courses, the second of four courses, the third of three courses, and the fourth of two courses, each course consisting of three lectures per week. The decreasing number of courses through the four sessions enables the student to devote more time to the preparation of his thesis, which must begin in the third session at latest. Each student works under the guidance of a director of research who is a member of the French Summer School Staff. The only listed course which may be taken for credit in more than one session is No. 27, Advanced Composition (see below).
The following courses are compulsory:
No. 37—Modern Criticism (to be taken preferably in the third session).
No. 32—Comparative Literature, unless a full course in the same subject has already been taken as part of the student's undergraduate work.
No. 27—Advanced Composition. A minimum mark of 65% must be obtained in the final examination of this course, irrespective of the final average for the set of courses taken during the session. The course must be repeated until this requirement has been met. As its material is varied each year, it can be taken a second summer for credit. If taken more than twice, it must then be carried as an extra course.
The course in Advanced Oral Practice, No. 29, can not be taken for M.A. credit in the third or fourth summer.

5. With the approval of the Graduate Faculty, one of the summer sessions, except the first, may be replaced by equivalent work in France or at another French Summer School.

DEPARTMENT OF GENETICS

Professor.....C. Leonard Huskins
Lecturer.....Arthur G. Steinberg
Lecturer.....H. G. F. Sander
Research Fellow.....S. G. Smith

Courses for Higher Degrees

With the co-operation of the Department of Botany, the Faculty of Agriculture and the Montreal Botanical Garden adequate laboratory, greenhouse, field and library facilities are available for research in Plant or Animal Genetics and Cytology.

A. Cytology.
2nd term.

B. Cytogenetics and Mechanics of Evolution.
1st term.

C. Biometry. Applications of statistics to research problems in biology.

D. Seminar. A course entailing the presentation by each student of at least six reports on current researches in Cytology and Genetics.

E. Colloquium.

F. Developmental Genetics.
2nd term.

Botany A, B or C, Zoology A or C, and other subjects cognate to Genetics or Cytology may be required.

Requirements for the Degree of Master of Science

Three of the above courses are required for the Master's degree in addition to a thesis on a research problem.

A sound knowledge of General Biology is prerequisite.

The research problem may be in Genetics or Cytology, or Cytogenetics.

Requirements for the Degree of Doctor of Philosophy

Only candidates who have shown indications of distinct research ability during their Master's training will be permitted to register for the Ph.D. degree. Course F must be taken in each year, and students must participate in the Departmental Colloquium. See general Regulations for further requirements.

DEPARTMENT OF GEOLOGICAL SCIENCES

Professors.....{John J. O'Neill, Richard P. D. Graham, T. H. Clark
Associate Professors.....{J. E. Gill, F. F. Osborne

Courses for the Master's Degree

A. Structural Geology.
Lectures and colloquia; Tu., and Th., at 10....Professor Gill.

B. Geological Colloquium.—This course must be taken by all graduate students in Geology in the first and second years.
Professor Osborne.

C. Ore Deposits.—As in "Mineral Deposits," by Lindgren, and assigned readings and problems.
Seminar, Mon. and Th. at 2....Professors O'Neill and Osborne.

*D. Optical Mineralogy.
One lecture Mon. at 10, and three hours laboratory per week during the first term.....Professor Graham.

E. (a) Petrology and Petrography.—Lectures Mon., Wed., and Fri., at 9. Laboratory Tues., Wed., and Fri., 2 to 5.
Text-books:—Bowen, Evolution of Igneous Rocks, Princeton; Tyrrell, Principles of Petrology, Dutton; Harker, Metamorphism, Methuen.

*F. Stratigraphy.
Two hours, first term; Mon., Fri., at 11. One hour laboratory, and two full days field work during October....Professor Clark.

*G. Palaeontology.—Two hours, second term; Mon., Wed., at 11. Three hours laboratory, Wed., 2 to 5, and one full day's field work in April.....Professor Clark.

*H. Physiography and Natural Resources of Canada.—Lecture Tu. at 12, and laboratory Th., 2 to 5.....Professor Gill.

Students who have satisfactorily completed undergraduate courses in General Geology, Mineralogy, Petrography, Stratigraphy, and Ore Deposits, or their equivalents, may expect to complete their M.Sc. course in one year; those specializing in Economic Geology must have certain Engineering credits in addition to the above. On that basis three graduate courses are normally required for the M.Sc. in addition to the thesis.

*Courses so starred are rated undergraduate.

Courses for the Degree of Doctor of Philosophy
(Second and Third Years)

I. Geology and Problems of the Pre-Cambrian.
Lectures and seminar at least two hours per week; first term; Mon. and Th. at 10.....Professor O'Neill.

J. Geological Map Interpretation.
One hour seminar with assigned problems.
Fri. at 10.....Professor Gill.

*K. Applied Geophysics (Physics; Graduate "W"). A course on the theory and practice of geophysical methods as applied to problems in engineering and geology.
Mon. and Wed. at 9. First term.....Professor Keys.
Text-book:—"Applied Geophysics," 2nd edition, Eve and Keys (Cambridge Univ. Press).

L. Advanced Petrology and Petrography.—Seminar and at least nine hours laboratory work per week. Mon. and Fri. at 2; Wed. at 9.....Professor Osborne.

M. Advanced Mineralogy.
Three hours seminar and laboratory per week.
Professor Graham.

N. Advanced Stratigraphy.
Hours to be arranged.....Professor Clark.

O. Physiography.
Seminar Fri. at 11.....Professor Gill.

P. Advanced Palæontology.
Hours to be arranged.....Professor Clark.

†Q. Advanced Economic Geology.
Seminar, Tu. and Fri. at 2.....Professors O'Neill. Gill, and Osborne.

†R. Advanced Structural and Dynamical Geology.—As in "Das Antlitz der Erde," vols. 1, 2, 3, and 4, by E. Suess, and numerous assigned papers.
At least two hours seminar per week. Tu. and Fri. at 2.
Professor O'Neill.

†Courses Q and R may be given in alternate years.
*Courses so starred are rated undergraduate.

DEPARTMENT OF GERMAN

Associate Professor.....W. L. Graff
Lecturer.....J. R. Beck

Courses for the Degree of Master of Arts

The candidate's courses will be selected from the following:—

A. Goethe.
One hour.....Professor Graff.

B. Lessing.
One hour.....Professor Graff.

C. Die Romantik.
One hour.....Professor Graff.

D. Gothic and Introduction to Germanic Philology.
One hour.....Professor Graff.

Two courses are selected by the candidate from A, B, C in consultation with the Department. A student intending to proceed to a Ph.D. at another university is strongly recommended to take course D in addition.

The thesis must be written in German.

DEPARTMENT OF HISTORY

Associate Professor.....E. R. Adair
Assistant Professor.....C. C. Bayley
Assistant Professor.....J. I. Cooper
Sessional Lecturer.....W. S. Reid

Courses for the Degree of Master of Arts and Doctor of Philosophy

A. Historical Method and Criticism.
Seminar, one hour.....Professors Adair, Bayley and Cooper.

B. The History and Personnel of the English House of Commons in the Late 14th Century.
Seminar, one hour.....Professor Bayley.

C. The Wyclifite Movement in its Religious and Social Aspects.
Seminar, one hour.....Professor Bayley.

D. Scotland on the Eve of the Reformation.
Seminar, one hour.....Dr. Reid.

E. The Seventeenth Century.
Seminar, one hour.....Professor Adair.

F. English History, 1870-1914.
Seminar, one hour.....Dr. Reid.

G. A Selected Period in the History of French Canada, down to 1800.
Seminar, one hour.....Professor Adair.

H. A Selected Topic in Canadian History, 1800-1900.
Seminar, one hour.....Dr. Cooper.

I. History of a Quebec Parish.
Seminar, one hour.....Professor Adair.

The Department of History is prepared to direct the research of graduate students in any one of the following fields: (1) English history in the later Middle Ages; (2) The constitutional evolution of the Empire in the thirteenth century; (3) Scottish history in the fifteenth and early sixteenth centuries; (4) English and French history in the sixteenth and seventeenth centuries; (5) English history, 1870-1914; (6) Certain aspects of English economic history; (7) The history of New France; (8) The history of the French and English in the province of Quebec; (9) English Canadian history.

Graduate work in the Department of History is directed through seminars and conferences. Students are expected to acquire a sound knowledge of methods of historical research and the ability to apply them in practice. Candidates both for the M.A. and for the Ph.D. are therefore required to take Course A, and to take the prescribed examination. The Redpath Library is well equipped with printed sources for the periods and subjects mentioned above, and students pursuing research in Canadian History will be required, as occasion arises, to avail themselves of the manuscript resources of the Dominion Archives at Ottawa and the Provincial Archives at Quebec, and of parochial and other records in Montreal and its vicinity.

Candidates for the degree of Master of Arts will take the appropriate seminar or seminars and will also prepare a thesis upon some subject to be selected from within the scope of one of the seminars they are taking; the thesis must be the product of real research on a subject hitherto imperfectly explored, and is regarded as the major test in determining the candidate's fitness for this degree.

The Ph.D. degree will be awarded on a course of study and research extending over three or more years. The first year of study for honours graduates of McGill University in History will consist of the M.A. course as outlined above; for graduates of other Universities, of this course or its equivalent. The second and third years shall consist of:—

(a) Resident study and research at McGill University under the general supervision of the Department, and directed in the appropriate seminar or seminars, the work to bear on the thesis

subject, and to include the preparation of the thesis, which must represent a genuine contribution to historical scholarship. It is desirable that the thesis should be a development and expansion of the work done for the M.A.

and (b) Resident study and research elsewhere for one of these years, or in the case of McGill graduates, if desirable, for both of these years, at an approved University or repository of archives in continuance of the work upon the thesis subject already selected. In all such cases the approval of the Faculty is required.

The preliminary Ph.D. examination requirements (discussed in the Announcement, in section 5 of the regulations for the degree of Doctor of Philosophy), will be replaced by a report from the Department of History on the general work and ability of each candidate.

Candidates are advised to satisfy the language requirements for the degree of Doctor of Philosophy as early as possible in their course; they should consult the Department as to the selection of the two foreign languages in which they propose to be examined, as these must be chosen for their bearing upon the candidate's special field and the special subject of his research.

After the thesis has been approved, the candidate will take the usual oral examination upon his special field of research.

DEPARTMENT OF HORTICULTURE

(Macdonald College)

Associate Professor.....H. R. MURRAY
Lecturer.....A. N. NUSSEY

Adequate laboratory and library facilities are available for the courses listed below and for research.:

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. POMOLOGY.
Lectures and colloquium, three hours per week.
Laboratory, three hours per week.
(Not given in 1943-44).

B. VEGETABLE CROPS.
Lectures and colloquium, three hours per week.
Laboratory, three hours per week.

C. EXPERIMENTATION. (See Course A.—Department of Agronomy).

D. PLANT PHYSIOLOGY. (See Course A.—Department of Botany).

E. ADVANCED GENETICS AND CYTOLOGY. (See Course B.—Department of Genetics).

Requirements for the Degree of Master of Science

1. A candidate must select either Course A or Course B, and Course C, together with at least one of the following: Course D, Course E, or any other course in a cognate subject approved by the Faculty.
2. The research problem must be approved by the Departments of Horticulture and Botany.
3. The candidate must spend one summer in the Department before or during the course, or have its equivalent at some other approved institution.

DEPARTMENT OF MATHEMATICS

Professors..... Charles T. Sullivan, Neil Bruce MacLean, Albert H. S. Gillson†, W. L. G. Williams

Associate Professor.....Herbert Tate

Assistant Professor.....Gordon Pall

Courses for the Master's Degree

**A. Introduction to the Theory of Functions of a Real Variable.
Three hours.....Professor Williams.

**B. Introduction to the Theory of Functions of a Complex Variable.
Three hours.....Professor Sullivan.

C. Modern Algebra.
Two hours.....Professor Pall.

D. Methods of Mathematical Physics.
Two hours.

E. Differential Geometry.
Two hours.....Professor Sullivan.

F. Differential Equations and Advanced Calculus.
Two hours.....Professor Pall.

**Open also to undergraduates of the Fourth Year in the Honour course.

†On military service.

G. THEORY OF GENERALIZED RELATIVITY OR WAVE MECHANICS. Two hours.

H. THEORY OF ALGEBRAIC PLANE CURVES.
Two hours.....Professor Sullivan.

I. CALCULUS OF VARIATIONS.....Professor MacLean.

J. PROJECTIVE GEOMETRY.....Professor Tate.

K. INFINITE SERIES.
Two hours.....Professor Williams.

L. SEMINAR IN ALGEBRA AND THEORY OF NUMBERS.
Two hours.....Professors Williams and Pall and Mr. Rosenthall.

Courses A, B, D, are given annually. An additional one of the courses listed above will be given, if a sufficient number of qualified students present themselves.

Students taking a minor in Mathematics for the M.Eng. degree must have as preliminary training the Mathematics required of undergraduates in Engineering, with an additional more advanced course in Mathematics.

(See also Course G in the Department of Electrical Engineering).

Students taking a minor in Mathematics for the degree of M.A. or M.Sc. must present courses in Mathematics equivalent to those required in the first three years of the Honours course in Mathematics and Physics, together with one additional course approved by the Department.

For a minor in Mathematics for the Ph.D. degree the student must have the equivalent of the Mathematics required in the Honours course in Mathematics and Physics, and an additional graduate course in Mathematics.

DEPARTMENT OF MECHANICAL ENGINEERING

Professors.....ARTHUR R. ROBERTS, CHARLES M. MCKERGOW

Assistant Professor.....JAMES A. COOTE

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE MASTER'S DEGREE

A. ENGINEERING THERMODYNAMICS. Prerequisites, *Courses 228, 229 and 251.
Three hours colloquia.....Professor McKergow.

*These are the numbers of courses given in the Faculty of Engineering.

B. MACHINE DESIGN. Prerequisites, *Courses 225 and 242.
Three hours colloquia. . . . . Professor Roberts.

C. INDUSTRIAL ENGINEERING. Prerequisites, *Courses 252, 254, 258 or their equivalent.
Two hours lectures and two hours colloquia. . . . . Professor Coote.

These are the numbers of courses given in the Faculty of Engineering.

DEPARTMENT OF MINING AND METALLURGICAL ENGINEERING

Professors. . . . . WILBERT G. MCBRIDE, J. U. MACEWAN

Associate Professors. . . . . GORDON ST. GEORGE SPROULE, O. N. BROWN

Lecturer. . . . . M. D. O'SHAUGHNESSY

Adequate laboratory and library facilities are available for the courses listed below and for research.

MINING ENGINEERING

COURSES FOR THE MASTER'S DEGREE

*A. MINING ENGINEERING. Courses 291 and 297 in the Faculty of Engineering (see Announcement of that Faculty).
Professors McBride and Brown.

B. ORGANIZATION AND MANAGEMENT OF MINES.
Two lectures per week, session. . . . . Professor McBride.

C. THE CYANIDATION OF GOLD AND SILVER ORES.
One lecture per week, first term. . . . . Mr. O'Shaughnessy.

D. CYANIDATION LABORATORY. Students who wish to supplement Course G are given one or two laboratory periods per week, second term. . . . . Professor MacEwan and Mr. O'Shaughnessy.

*Undergraduate course open to graduate students who have not already taken it as undergraduates.

E. THE THEORY AND PRACTICE OF FLOTATION.
Two lectures per week, first term.....Mr. O'Shaughnessy.

F. FLOTATION LABORATORY. Students who wish to supplement Course I are given one or two laborarory periods per week, second term.....Professor Brown and Mr. O'Shaughnessy.

G. MINE VENTILATION. Two lectures per week...Professor Brown.

H. MINE MECHANIZATION. Reading course.....Professor Brown.

Permission is given for two or more graduate students to work together on the physical part of an investigation, when the nature of the problem and the facilities in the laboratory make it desirable to do so.

No collusion in working up of results or in writing of the thesis is allowed.

METALLURGICAL ENGINEERING

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE MASTER'S DEGREE

A. GENERAL ADVANCED METALLURGY. Directed reading supplemented by two hours per week of colloquium and three hours per week of laboratory work.....Professors Sproule and MacEwan.

This may include a special study of one or more selected metals or of some special branch of Metallurgy such as Electro-metallurgy, Pyro-metallurgy, Metallography, etc.

The following undergraduate subjects are offered to students who did not take them in their undergraduate course:—

B. ADVANCED METALLURGY. Fourth Year Engineering, No. 272.
Two hours lectures, session.

C. ELECTRO-METALLURGY. Fourth Year Engineering, No. 275.
Three hours lectures, first term.

D. METALLURGICAL PROBLEMS AND DESIGN. Course 278 in the Faculty of Engineering (See announcement of that Faculty).

E. METALLOGRAPHY AND LABORATORY. Fourth Year Engineering, Nos. 280 and 281.
Two hours lectures, session; one laboratory period, second term.

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

43/44

Professor.....WILDER PENFIELD
Associate Professor.....WILLIAM CONE
(in charge of Graduate Studies)
Associate Professor.....COLIN RUSSEL

Lecturers.....
J. NORMAN PETERSEN
ARTHUR ELVIDGE
DONALD MCEACHERN*
A. E. CHILDE
HERBERT JASPER
MIGUEL PRADOS
KARL STERN
FRANCIS MCNAUGHTON

COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

A. COLLOQUIUM, 1 hour, Fridays 5 P.M.
NEUROPATHOLOGY.....Professors Cone and Penfield.

B. LECTURE, 1 hour, Tuesdays 5.30 P.M.
Fundamental Introduction to Neurology including Neuroanatomy, Neurophysiology, Biological Chemistry and Roentgenology.....Drs. Petersen, Elvidge, McEachern and Childe.

C. SEMINAR IN NEUROLOGY, 2 hours, Wednesday 5 P.M.
2 hours.....Professors Penfield, Russel and Cone.

D. SEMINAR IN NEUROSURGERY, 1 hour, Tuesdays 3.30 P.M.
1 hour.....Professor Penfield.

For the degree of Master of Science a candidate must satisfactorily complete three of the courses, listed as A, B, C and D above. He may substitute for one of these a course of equal rank in another Department of the Faculty of Graduate Studies and Research with the approval of the Chairman of the Department. The remainder of his time is to be devoted to experimental research, the accomplishment of which, as embodied in his thesis, will be the main consideration in recommending him for this degree.

For the degree of Doctor of Philosophy the above course requirements are made in each of the first two years of work. Other requirements are outlined under the general statement and regulations of the Faculty of Graduate Studies and Research.

In addition to the above formal courses the Department provides opportunity for advanced clinical study and laboratory research to properly qualified graduate students. The work of this Department is carried out chiefly in the Montreal Neurological Institute.

*On military service.

DEPARTMENT OF NUTRITION
(MACDONALD COLLEGE)

Professor of Animal Nutrition.....E. W. CRAMPTON (*Chairman*)
Assistant Professor of Nutrition.....MARGARET S. MCCREADY
Associate Professor of Poultry Husbandry....W. A. MAW
Professor of Biochemistry (McGill).....D. L. THOMSON

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Adequate laboratory and library facilities are available for the courses listed below and for research.

A. EXPERIMENTAL TECHNIQUE.
Design of nutritional experiments; analysis and interpretation of data.
Two lectures per week, one term. Laboratory, minimum six hours per week, one term.....Professor Crampton.

B. POULTRY NUTRITION.
Quantitative requirements of poultry; study and interpretation of current nutritional research.
Two lectures per week, one term. Laboratory, minimum three hours per week, one term.....Professor Maw.

C. DIETETICS.
Dietary surveys; experimental cookery; food technology.
Hours variable and by arrangement.....Professor McCready.

*D. METABOLISM.
Two lectures per week for session.....Professor Thomson.

E. RECENT ADVANCES IN BIOCHEMISTRY (Course A—Department of Biochemistry, McGill).
One lecture per week for session.....Professor Thomson.

Students are required to attend and participate in the department seminars.

In addition to writing a thesis, students in Agriculture must take courses A and D and for those specializing in Poultry Husbandry, course B is also required. Household Science students must take courses A, C, and D. In special cases cognate courses may be substituted or added on the advice of the director of research.

Students who have satisfactorily completed undergraduate courses in Food Chemistry; Biophysics; Physiology; Fundamentals of Nutrition or their equivalents, may be able to complete their M.Sc. course in one year.

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*This is also an undergraduate course in the Faculty of Arts and Science.

DEPARTMENT OF PARASITOLOGY
(Macdonald College)

Professor.....Thomas W. M. Cameron
Lecturer.....I. W. Parnell*
Research Associate.....W. E. Swales

Adequate laboratory and library facilities are available at the Institute of Parasitology for the courses listed below and for research.

Courses for the Degree of Master of Science

A sound knowledge of general Zoology and of elementary Parasitology are pre-requisites.

A, B, and C comprise the main courses and further cognate courses from group E may be chosen, depending on the research problem selected and the candidate's previous training.

Courses for the Degree of Doctor of Philosophy

Candidates should have a degree in which Zoology is an important subject; when the special subject for research is an economic one, qualifications in Human or Veterinary Medicine or Agriculture are desirable; if the special branch of research is in Non-Economic Animals, a degree with honours in Zoology is desirable. A cognate subject from group E may be selected, but the examination in this should be completed by the end of the second year of study.

A. A Systematic Study of the Animal Parasites of Man, Domestic and Economic Animals.
Three hours.....Professor Cameron.

B. Practical Parasitology.
Four hours.....Professor Cameron and lecturer.

C. Field Work: Parasitological surveys, Collections in the field. Methods of control.

D. Medical and Veterinary Entomology. (See Department of Entomology, course D).
Two lectures, three laboratory hours per week, second term.
Professor DuPorte.

E. Cognate subjects relative to the subject of research, selected from Biochemistry, Pathology, Pharmacology, Physiology, Entomology, etc., as may be arranged.

*On military service.

DEPARTMENT OF PATHOLOGY

Professor.....G. LYMAN DUFF
Associate Professor.....THEO. R. WAUGH
Lecturers.....J. E. PRITCHARD, C. L. YUILE

The department offers adequate laboratory and library facilities in the Pathological Institute for morphological or experimental research and for the courses listed below leading to the degrees of Master of Science and Doctor of Philosophy in Pathology.

QUALIFICATION FOR ADMISSION

Candidates for graduate degrees in Pathology must hold the degree of Doctor of Medicine or its equivalent and must have attained high standing in the courses leading to this degree, especially in the preclinical scientific subjects.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

A. RECENT ADVANCES IN PATHOLOGY.
Lectures on selected subjects in Pathology.
Professor Duff and Staff.

B. COLLOQUIUM.
Demonstration and discussion of current pathological material from the autopsy service of the Pathological Institute.
Two hours per week throughout the year.
Professor Duff and Staff.

C. CONFERENCES.
Conferences will be held at regular intervals with graduate students for the purpose of guiding their reading and investigative work and for the discussion of special problems arising from their research.

D. COGNATE SUBJECTS.
Each student will be required to take certain courses in cognate subjects, the selection of which will depend upon the student's previous training and on the character of the research problem to be undertaken.

Any candidate for a graduate degree may be required to attend the undergraduate course in General Pathology and be prepared to pass a comprehensive examination in this subject.

A candidate for the degree of Master of Science must take courses A, B, and C, and at least one cognate course. The remainder of his time is to be devoted to morphological or experimental research. The quality of the student's investigative work as embodied in his thesis will be the main consideration in recommending him for this degree.

For the degree of Doctor of Philosophy the candidate must take courses A, B, and C throughout each year of study in addition to his research. Any cognate subjects required must be completed before the end of the second year.

As for the Master's degree, the quality of the research work as embodied in the Ph.D. thesis will be the main consideration in the award of this degree.

DEPARTMENT OF PHARMACOLOGY

Professor.....RAYMOND L. STEHLE
Assistant Professor.....K. I. MELVILLE

Adequate laboratory and library facilities are available for the courses listed below and for research.

Candidates for higher degrees must present evidence of suitable preparation in Chemistry and Physiology and must have completed the course in Pharmacology as given to medical students.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. ADVANCED PHARMACOLOGY.

B. COLLOQUIUM.
One hour weekly.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Special arrangements can be made for anyone desiring to proceed to a doctorate.

DEPARTMENT OF PHILOSOPHY

Professor.....R. D. MACLENNAN
Assistant Professor.....J. S. FULTON
Lecturer.....C. CURRIE

COURSES FOR THE DEGREE OF MASTER OF ARTS

*A. SOCIAL AND POLITICAL PHILOSOPHY. (Not given in 1943-44).

*B. FUNDAMENTAL PROBLEMS OF PHILOSOPHY.

*C. READINGS IN THE CLASSICS OF PHILOSOPHY, ANCIENT AND MODERN.

*D. SEMINAR ON CONTEMPORARY PHILOSOPHY.

E. Seminar courses will be offered on the special fields of Philosophy in which candidates are studying for their theses.

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*These courses are also open to undergraduates.

DEPARTMENT OF PHYSICS

Professors.....{A. Norman Shaw
David A. Keys
J. Stuart Foster

Associate Professors....{Herschell E. Reilley
W. H. Watson

Assistant Professors....{H. G. I. Watson
F. R. Terroux

Adequate laboratory and library facilities are available for the courses listed below and for research in any of the main branches of physics. Equipment for investigations in spectroscopy, electrical measurements, molecular physics and geophysics has been specially developed. To provide an opportunity for research in nuclear physics and its applications, the construction of a new radiation laboratory and a cyclotron has been approved. (This project has been postponed, temporarily, on account of the war.)

With the permission of the Chairman of the Department, graduate students in Physics may arrange to take some of their required courses, and to undertake research at Macdonald College, the remainder of their courses being taken in Montreal.

Courses for the Degrees of Master, and Doctor of Philosophy

*A. Electrical Measurements. (Arts and Science, 6A.)
Tu., at 2, Wed. at 2, first term only; Laboratory, Tu. 3-5, Wed. 3-5, both terms.....Professors W. H. Watson and H. G. I. Watson.

Reference books:—Laws' Electrical Measurements (McGraw-Hill); Pidduck's Treatise on Electricity (C.U.P.); Hague's Alternating Current Bridge Methods (Pitman, London); Reich's Applications of Electron Tubes (McGraw-Hill).

*B. Light. (Arts and Science, 6B.) (Replaced by F in alternate sessions.†)
Sat. at 10; tutorial problem hour, Tues. at 11; laboratory, Th. 2-5. Professor Keys.

Text-book:—Houston's Light (Longmans).

Reference:—Robertson's Physical Optics (Van Nostrand); Wood's Physical Optics (Macmillan); Drude's Physical Optics (Longmans).

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*These courses are also open to undergraduates.

†Courses B and F will be given in alternate sessions, as follows:—F in '43-'44 and B in '44-'45.

*C. ELECTROMAGNETIC THEORY. (Arts and Science, 7A.)

Tues. at 10.....Professor W. H. Watson.

Text-book:—Pierce's Electric Oscillations and Electric Waves (McGraw-Hill).

Reference:—J. J. Thomson's Electricity and Magnetism (C.U.P.).

*D. MATHEMATICAL PHYSICS. (Arts and Science, 7B.)

This course includes an introduction to quantum theory and nuclear physics.

Mon., Thurs. at 10.....Professor Foster.

Text-books:—Houston's Introduction to Mathematical Physics (Longmans); Page's Introduction to Theoretical Physics (Van Nostrand).

*E. MOLECULAR PHYSICS. (Arts and Science, 8A.)

Wed., Fri., at 10; laboratory, Mon. (or Tu.), 2-5.
Professors Shaw and W. H. Watson.

Text-book:—Crowther's Ions, Electrons and Ionizing Radiations (Arnold).

Reference:—Richmyer's Introduction to Modern Physics (McGraw-Hill); Strong's Procedures in Experimental Physics (Prentice-Hall); Brown's Foundations of Modern Physics (Wiley).

*F. THEORY OF HEAT. (Arts and Science, 8B.) (Replaced by B in alternate sessions.†)

Mon., at 9; lab. Th. 2-5‡; totorial problem hour, Sat. at 10.
Professor Shaw.

Text-book:—Roberts' Heat and Thermodynamics (Blackie).

*G. RADIOACTIVITY. (Arts and Science 9.)

Tues. at 9 and Thurs. at 11, second term; laboratory, Fri., second term, 2-5.....Dr. Terroux.

Reference:—Rutherford, Chadwick and Ellis, Radiations from Radioactive Substances (C.U.P.).

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*These courses are undergraduate honours courses prerequisite to graduate work in Physics; but they are open to graduate students (1) choosing Physics as a Minor or Cognate subject, or (2) completing their entrance qualifications for graduate work in Physics.

†Courses B and F will be given in alternate sessions, as follows:—F in '43-'44 and B in '44-'45.

‡The Department of Mining and Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.

*H. APPLICATIONS OF VECTOR ANALYSIS. (Arts and Science 10.)§
Tues., at 10.....Professor W. H. Watson.

I. ADVANCED STATICS, DYNAMICS, HYDRODYNAMICS AND SOUND.§
Tues., at 11, and Wed., at 10.....Professor W. H. Watson.
Text-books:—Lamb's Higher Mechanics (C.U.P.).
References:—Lamb's Dynamical Theory of Sound (Arnold); Bateman, Dryden and Murnaghan's Hydrodynamics (N.R.C., U.S.A.); Goldstein's Fluid Dynamics (Clarendon).

J. KINETIC THEORY OF MATTER.§
Wed. at 11.....Professor Shaw.
Reference:—Loeb's Kinetic Theory of Gases (McGraw-Hill); Jean's Dynamical Theory of Gases (C.U.P.).

K. QUANTUM THEORY AND SPECTRUM ANALYSIS.
Wed. at 12.....Professor Foster.
Text-books:—Birtwistle's Quantum Theory of the Atom (C.U.P.); Ruark and Urey's Atoms, Molecules and Quanta (McGraw-Hill).

L. RELATIVITY.§
Sat. at 12.....Professor Gillson.

M. ADVANCED ELECTRICITY AND MAGNETISM.
Prerequisite—Course C.
Text-book:—Harnwell's Principles of Electricity and Electromagnetism (McGraw-Hill).
References:—Jeans' or Livens' Electricity and Magnetism (C.U.P.); Smythe's Static and Dynamic Electricity (McGraw-Hill); Terman's Radio Engineering (McGraw-Hill).
Tues. and Fri., at 10.....Professors W. H. Watson and H. G. I. Watson.

N. LABORATORY PRACTICE AND PHYSICAL MANIPULATION.§
Mr. H. T. Pye and Mr. S. Amesse.

O. THERMODYNAMICS.
(Alternate sessions, '43-'44 etc.).
Mon. at 10.....Professor Shaw.
Text-books: — Birtwistle's Thermodynamics (C.U.P.), and Roberts' Heat and Thermodynamics (Blackie).

P. ELECTRON THEORY.§
Thurs. at 10.....Professor Keys.
References:—Richardson's Electron Theory (C.U.P.), Lorentz' Theory of Electrons (Stechert); E. Bruche and O. Scherzer, Electronen Optik (J. Springer).

*See note after * at foot of page 792.
§Not offered in '43-'44.

Q. HEAVYSIDE'S OPERATIONAL CALCULUS.§
One hour.

**R. ASTROPHYSICS.§
Three hours per week.
References:—Russell's Astronomy, vol. I and II (Ginn); Dingle's Astrophysics (Collins); Stratton's Astronomical Physics (Methuen); Eddington, Internal Constitution of the Stars (C.U.P.).

S. MATHEMATICAL PHYSICS, WAVE MECHANICS, ETC.§
This class is divided into two sections, S1 and S2, elementary and advanced. S2 may be taken as a continuation of S1. Usually these courses will alternate in successive sessions.
Two hours.

T. (a) LOGIC OF PHYSICS. (Ten lectures).
(b) ELECTRONS IN SOLIDS. (Fifteen lectures).
The thermionic, photoelectric and optical properties of metals; photo-conductance in insulators; discussion of recent theories. Tu. and Fri. at 12 (first term only).
(Not given in 1943-1944) Professor W. H. Watson.

U. STATISTICAL MECHANICS.
Tu. and Fri. at 12 (first term only).
(Not given in 1943-44). Professor W. H. Watson.
References:—Rice's Statistical Mechanics; Fowler's Statistical Mechanics.

V. NUCLEAR PHYSICS SEMINAR.
Two hours.....Professor Foster.

W. APPLIED GEOPHYSICS. (Arts and Science 12, Engineering 320).
Mon. and Wed. at 9, first term.....Professor Keys.
Text-book:—Applied Geophysics, Eve & Keys, 2nd ed. (C.U.P.).
Reference:—Geophysical Exploration by Heiland (Prentice-Hall).

Evening Courses in (i) Radiation Theory and (ii) Communication Networks are offered by members of the physics staff in connection with Electrical Communication Engineering for the M.Eng. degree. (See p. 767 of this announcement where these courses are listed as E and F respectively of the Department of Electrical Engineering).

**Students who have received instruction in Astronomy may apply to proceed to the Dominion Observatory at Ottawa for work in summer.

§Not offered in '43-'44.

A review of the general requirements and selected topics for the preliminary examination for the degree of Ph.D. is given, in addition to the above courses, in a weekly seminar under the guidance of Professors Shaw, Keys and W. H. Watson.

A suitable selection of the above courses may be made when Physics is taken as a minor or cognate subject. A general examination on elementary physics is also given when Physics is a minor subject.

Courses for Master and first year Ph.D.—Courses K, M, Mathematics D, and one other course. Research. (Thesis required for Master's degrees).

Second Year.—Research and selected courses from the above. "Preliminary" examinations.

Third Year.—Research, thesis, oral, and one optional course.

Attendance at meetings of the Physical Society, Journal Club, and Colloquium, together with the presentation of papers, form an important element in the training of M.Sc. and Ph.D. students.

DEPARTMENT OF PHYSICS
(Macdonald College)

Associate Professor.....W. Rowles
Lecturer.....W. F. Oliver

The courses below may form part of the required courses for graduate students in Physics (see pages 791-795), or may be taken by studentsi n other departments as a minor or cognate subject (see page 744).

Courses Available to Graduate Students

A. Advanced Biophysics.

2 hours, 2nd term.....Professor Rowles.
(Given in 1944-45).

B. Theory of Probability.

2 hours, 2nd term.....Dr. Oliver.
(Given in 1943-44).

DEPARTMENT OF PHYSIOLOGY

63/44

Professor.....H. E. Hoff
Assistant Professor.....N. Giblin
Lecturer.....S. Dworkin
Demonstrator.....Rhoda Grant

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Degree of Master of Science

A. Applied Physiology.....
B. Lectures on Selected Advanced Topics..... } Professors Hoff and Giblin and Drs. Dworkin and Grant.
C. Advanced Laboratory.....
D. Physiological Colloquium.
E. Lectures on Conditioned Reflexes.....Dr. Dworkin.

Requirements for the Degree of Doctor of Philosophy

Courses for a second year, toward the degree of Doctor of Philosophy, may be selected from those set forth above which have not already been taken in the first year of graduate study.

DEPARTMENT OF PLANT PATHOLOGY
(Macdonald College)

Associate Professor.....J. G. Coulson
Lecturer.....I. H. Crowell

Adequate laboratory and library facilities are available for the courses listed below and for research.

Candidates must have completed saitsfactory undergraduate courses in Plant Morphology, Physiology, Taxonomy, Histology and Cytology. Specialists in Plant Pathology should possess a general knowledge of the fundamental practices in Agronomy and Horticulture.

Courses for the Degrees of Master of Science and Doctor of Philosophy.

A. History of Plant Pathology. One lecture per week for one term. Extra reading required.
Text-book:—History of Phytopathology — Whetzel (Saunders Co.).

B. ADVANCED MYCOLOGY. Two lectures and two laboratory periods per week for two terms. A general course in Systematic Mycology is a prerequisite. Dr. Crowell.

Text-books:—Comparative Morphology of the Fungi—Gaumann and Dodge (McGraw-Hill), Plant Disease Fungi—Stevens (Macmillan), A Text-book of Mycology—Bessey (Blakiston's Son).

C. ADVANCED PLANT PATHOLOGY.

Two lectures and two laboratory periods per week for two terms. Professor Coulson.

Text-book:—Manual of Plant Diseases—Heald (McGraw-Hill).

D. PRINCIPLES OF PLANT PATHOLOGY. Two lectures and three laboratory periods per week for two terms....Professor Coulson.

E. PLANT PHYSIOLOGY (Course A or C—Department of Botany).

F. SEMINAR.—A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc.

One period per week.....Professor Coulson and staff.

Candidates for the Master's degree and first year Ph.D. students must satisfy the requirements of courses F and two from B, C, and D.

Second year Ph.D. students are required to take course F and all other courses listed above which were not taken during the previous year.

Third year Ph.D. students devote most of their time to research and the writing of a thesis. A candidate may be held responsible for a course in a cognate subject bearing upon his research.

The Ph.D. degree in Plant Pathology is offered in close association with the Department of Botany. The preliminary oral examination is conducted jointly by both departments. The research and thesis must be in the field of Plant Pathology.

DEPARTMENT OF PSYCHOLOGY

Professor.....WILLIAM D. TAIT
Associate Professor.....CHESTER E. KELLOGG
Assistant Professor.....N. W. MORTON*

COURSES FOR MASTER'S AND PH.D. DEGREES

A. SEMINAR IN HISTORY OF PSYCHOLOGY.....Professor Kellogg.

B. THE PSYCHOLOGY OF WILLIAM JAMES.....Professor Tait.

C. CONTEMPORARY PSYCHOLOGY. A group course by the members of the Department.

*On military service.

D. SEMINAR IN PSYCHOLOGY OF LANGUAGE.....Professor Kellogg.

E. SEMINAR IN ABNORMAL PSYCHOLOGY.

F. ADVANCED STATISTICAL METHODS.....Professor Kellogg.
History of statistical methods; generalized frequency curves, advanced correlation analysis; sampling, analysis of variance; etc. Not given in 1943-44.
Prerequisite:—Course 14.

G. THEORY AND TECHNIQUE OF MENTAL TESTS.
History of mental measurements; the psychophysical methods; construction and calibration of tests; theories of intelligence and mental factors; factor analysis; problems of prediction.
Prerequisite:—Courses 10 and 14.....Professor Kellogg.

H. EXPERIMRNTAL EDUCATION.....Professor Tait.

I. ADVANCED PSYCHOTECHNICS.....Professor Kellogg.

J. RESEARCH. Under the direction of members of the Department.

K. EXPERIMENTAL TECHNIQUE.

For other courses open to graduate students see Announcement of the Faculty of Arts and Science.

REQUIREMENTS FOR M.A. AND M.SC.

Four advanced courses approved by the Department and a thesis.

SPECIAL REQUIREMENTS FOR PH.D.*

1. Candidates are required to possess an adequate knowledge of the main principles of Physics, Chemistry and Physiology, in so far as these subjects are cognate to Psychology.

2. All candidates are required to have at least the degree of familiarity with quantitative techniques signified by honour standing in Course 16.

3. A certain amount of shopwork is required, enough to show that the candidate is capable of designing and constructing simple apparatus.

4. The preliminary examination for the Ph.D. includes the History of Philosophy, Principles of Psychology, Experimental and Physiological Psychology, Statistical Methods and Contemporary Psychology.

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*For the duration of the war no candidates will be accepted for this degree.

DEPARTMENT OF SOCIOLOGY

Professor.....Carl Addington Dawson
Assistant Professor.....Forrest La Violette

The Department especially encourages research in Canadian subjects, such as: the peculiarities of Canadian culture and social organization; the development of regional factors in Canadian affairs; frontier communities; the Canadian city; immigration and race relations; population and related problems; social institutions; crime, delinquency, and other forms of social disorganizations.

Courses for the Degree of Master of Arts

*A. The Community. Third and Fourth Years.
Tu., Th., Sat., at 9.....Professor Dawson.

*B. Immigration and Population Growth; the Assimilation of Alien Groups; the Race Factor in Canada.
(Given in 1944-45).....Professor Dawson.

*C. Social Disorganization. Third and Fourth Years.
Second term, Mon., Wed., Fri., at 9.....Professor La Violette.

*D. Social Origins. Third and Fourth Years.
(Given in 1944-45).....Professor La Violette.

*E. Social Movements. Third and Fourth Years.
(Given in 1944-45).....Professor La Violette.

*F. The Family. Third and Fourth Years.
(Given in 1944-45).....Professor Dawson.

*G. The Sociology of the Child. Third and Fourth Years.
First term, Mon., Wed., Fri., at 9.....Professor La Violette.

H. Social Institutions.
Hours to be arranged.....Professor La Violette.

I. Social Attitudes and Personality.
(Given in 1944-45).....Professor La Violette.

J. Graduate Seminar.
Hours to be arranged.....Professor Dawson.

Written examination in each course of study and a general oral examination are required of each candidate.

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*Note.—The starred courses are also undergraduate honours courses and are described in the catalogue of the Faculty of Arts and Science. Additional work will be required of graduate students who take such courses.

DEPARTMENT OF THEOLOGICAL STUDIES

This Department may be consulted should students wish to take a Theological course as a cognate subject.

DEPARTMENT OF ZOOLOGY

Strathcona Professor.....

Associate Professor and Chairman of the Department.....N. J. BERRILL

Assistant Professor.....V. C. WYNNE-EDWARDS

Lecturers.....K. G. TERROUX, R. GRANT

Professor of Parasitology and Director of the Institute of Parasitology at Macdonald College. Special lecturer....T. W. M. CAMERON

Research Fellow.....J. HOLTFRETER

Adequate laboratory and library facilities are available for research. The Blacker and Wood zoological libraries comprise over 40,000 volumes. Courses exclusively for graduate students are not offered, but the following advanced courses are available to graduate students when desirable. Graduate students are expected to take such courses and also cognate courses in other departments that relate to their particular line of specialization, if not previously taken. Primary emphasis for both the degree of M.Sc. and Ph.D. is placed upon research and thesis presentation.

A. COMPARATIVE AND EXPERIMENTAL EMBRYOLOGY.
Professor Berrill.

B. ADVANCED VERTEBRATE ZOOLOGY.
Professor Wynne-Edwards.

C. PHYSIOLOGICAL ZOOLOGY.
Dr. Grant and Dr. Terroux.

D. COMPARATIVE INVERTEBRATE BIOLOGY.
Dr. Grant.

Graduate students are expected to attend the Biological Seminars.

LABORATORIES AND LIBRARIES

Adequate laboratories and laboratory equipment are available for undergraduate instruction and for the use of students in the Faculty of Graduate Studies and Research.

All students have free access to the Redpath Library, containing over 300,000 volumes, to the Faculty Library in the Engineering Building, containing about 2,000 titles of particular interest to students of engineering, and to the special libraries of the Departments of Chemistry, Physics, and Geological Sciences.

RESEARCH INSTITUTE OF ENDOCRINOLOGY

J. B. Collip, *Director*
Robert L. Noble
A. H. Neufeld
Research Fellow.....Hector Mortimer

This Institute established in 1941 and housed in the West Wing of the Medical Building is devoted to research in the fundamentals of endocrinology. It is not an undergraduate teaching department, but is closely associated with the Faculty of Graduate Studies and Research and the Faculty of Medicine, and affords facilities for properly qualified graduates to work for the Ph.D. degree.

The Institute is under the direction of Professor J. B. Collip, Gilman Cheney Research Professor of Endocrinology. Dr. Robert L. Noble is the senior assistant in the physiological branches of the subject and Dr. A. H. Neufeld is the senior assistant in the biochemical branches.

A limited number of graduate students will be accepted. Entrance requirements are either the degree of Doctor of Medicine with high standing in the courses for that degree, or the M.Sc. degree in Physiology or Biochemistry or its equivalent in training in these subjects.

The minimum period in which a student with a B.Sc. or an M.D. degree can obtain a Ph.D. degree is three years. A student with an M.Sc. degree or its equivalent may qualify for the Ph.D. degree in a minimum of two years. It is not proposed to do any didactic teaching in the Institute, but candidates for a Ph.D. degree will be required to pass a comprehensive examination in the subject and to submit a thesis.

Inquiries concerning the Institute should be addressed to the Director.

McGILL UNIVERSITY

MONTREAL

LIBRARY SCHOOL

1943 - 1944

McGILL UNIVERSITY

LIBRARY SCHOOL

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.

University Librarian and Director of the Library School.....G. R. Lomer, M.A., Ph.D., F.L.A.

Registrar.....T. H. Matthews, M.A.

Bursar.....William Bentley, C.G.A., A.C.I.S.

A complete list of the teaching staff of the University, including the Library School, is printed as a separate announcement, which may be obtained from the Registrar's Office.

LIBRARY SCHOOL

Plans for a sessional Library School at McGill University were made in the Spring of 1904 by Mr. C. H. Gould, then Librarian, in consultation with Dr. Melvil Dewey, Director of the New York State Library School at Albany. In order to lose no time, a summer course was provided for that year, thus constituting the first library school in Canada. Owing to limited funds, the winter course could not then be provided, and the summer course was repeated in 1905, 1907, 1910-11, 1913-14, 1920-24, 1926, and 1927.

In 1921 the University Librarian again proposed the establishment of a sessional course, and this was approved by Corporation in the same year and by the Governors early in 1922. The realization of these plans was made possible by the co-operation of the Carnegie Corporation with McGill University, and the first winter course under the auspices of a Canadian university opened in October, 1927. It was then accredited as a Junior Undergraduate Library School by the Board of Education for Librarianship of the American Library Association. In 1930 the Corporation of McGill University approved the raising of the entrance requirements, and the Library School became a graduate School, with the power of conferring the degree of Bachelor of Library Science, and was accredited on this new basis by the Board of Education. In addition to fundamental courses in library methods and administration, the School offers advan-

tages and opportunities in training for special libraries and for school and college libraries, as it is situated in a large city which provides examples of libraries of all types and is part of a university with a recognized high standard of scholarship.

EQUIPMENT

The Library School occupies quarters conveniently situated in the Redpath Library and consisting of a lecture room (equipped with lantern and refractoscope) a staff office, a reading room containing professional books and periodicals, and a study room with individual desks and typewriters for students.

DEGREE OF BACHELOR OF LIBRARY SCIENCE

Candidates who successfully complete all the required work of the School are entitled to receive the degree of Bachelor of Library Science (B.L.S.) at the May Convocation and to wear the regulation black Bachelor's gown and a Bachelor's hood of black lined with burnt orange silk and trimmed with white rabbit fur. Academic costume for graduation may be rented from the Registrar's office.

REQUIREMENTS FOR ADMISSION

1. Applicants for admission to the course leading to the degree of Bachelor of Library Science must have a Bachelor's degree from a recognized college or university and must present an official transcript of their college record.

2. Experience has shown that applicants over thirty-five years of age should not be encouraged to enter the School, as they usually find intensive study difficult and are at a disadvantage in applying for positions.

3. As no one with serious physical defects, personality difficulties, or ill health can readily secure a position in library service, such persons should not ask admission to the School.

4. Applicants for admission must fill in the School Application form and attach thereto a recent photograph and an advance fee of $10.00 which will be credited to the student's fee account. Should the application be rejected, this advanced payment will be refunded. No refund will be made in the case of a student who withdraws after the application has been accepted.

5. Students are advised before entering to acquire proficiency in the operation of a typewriter, since the greater part of the work done must be in typewritten form.

6. The class is limited to twenty students, each of whom receives individual attention.

PLACEMENTS

While the School does not guarantee positions to graduates and will not recommend any with less than a "B" average, it makes an effort, subject to government regulations, to help its graduates find suitable positions. Complete records are kept in the Library School files and transcripts and letters of reference are sent to prospective employers on request.

MEDICAL EXAMINATION

1. All students entering the University are required by the Provincial Board of Health to present a certificate, or other satisfactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five years, failing which they shall immediately be vaccinated in a manner satisfactory to the Medical Examiner.

2. Students must also present a Certificate of Health which may be obtained from the School and which should be filled in and signed by a physician.

REGISTRATION AND ATTENDANCE

REGISTRATION:

1. Students in the Library School are required to present themselves at the office of the Library School on Friday, September 17, or Saturday, September 18, preceding the commencement of lectures, in order to furnish the information necessary for the University records.

ATTENDANCE:

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course.

2. Excuses for absence on account of illness or domestic affliction are dealt with only by the Director of the School. Medical certificates covering absences must be presented by the student immediately after his return.

3. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to take the regular examination in that course; and those whose unexcused absences have exceeded one-fourth of the total number of lectures must repeat the work in that course for credit.

FEES AND EXPENSES

1. FEES:

a. Regular students:

Fees are due and payable at the Bursar's Office on September 20, but they will also be received before that date. After September 20 or February 1, (as the case may be) an additional fee of $2.00 is charged.

Fee for the Library Course	$170.00
By instalments:	
First instalment	87.50
Second instalment	87.50
These fees include registration, instruction, the use of the Library, health service, athletics, and graduation diploma.	
Fee for each supplemental examination	5.00
b. Partial students:	
Fee for partial students, per point	15.00
Library fee for partial students taking less than two points, unless already registered at McGill	4.00
Certificate for partial students	1.00

Immediately after September 20 (or February 1, in the case of students who pay by instalments), the Bursar will send to the Director of the School a list of registered students who have not paid their fees. Such students cannot be re-admitted to classes except on presentation of a receipt signed by the Bursar certifying the payment of the necessary fees.

2. Student Activities:

Students in the School pay $1.50 for the McGill Daily.

3. Caution Money:

Every student is required to deposit with the Bursar the sum of $20.00 as Caution Money to cover damage done to furniture, books, apparatus, etc. This amount, less deduction (if any), will be refunded at the end of the session, *on presentation of receipt.*

4. Textbooks and Materials:

Students should allow approximately $35.00 for textbooks, blank forms, cataloguing cards, and other library supplies needed during the session. These may be purchased at cost from the Secretary of the School. Portable typewriters may be rented, for use in the School only, at the rate of $1.00 per month.

5. Traveling Expenses:

A week's visit, under the direction of members of the Faculty, to libraries in other cities is a required part of the Library Course, and students should allow a minimum of $85.00 for this purpose.

6. Board and Residence:

Information about approved boarding and lodging houses may be obtained on application to the Secretary of the School.

7. Clubs and Societies:

Students are encouraged to take advantage of the privileges offered to members of the Quebec Library Association, The Special Libraries Association, and the American Library Association. Women students of the School are eligible for membership in the University Women's Club, 3492 Peel Street, in the immediate neighbourhood of the School.

SCHOLARSHIP

The Ethelwyn M. Crossley Scholarship Fund, founded in honor of a former student of the school, is available, on application and after due investigation and recommendation, to deserving students who require financial assistance to take the course. The amount available annually is about $60.00.

PARTIAL STUDENTS

A limited number of qualified students who are not candidates for the degree may be admitted to individual courses as partial students. Before registration such students must satisfy the Faculty of the School of their ability to follow the courses selected, and they must fulfil all requirements of classroom work and tests prescribed for regular students of these courses. A certificate of attendance may be obtained on application to the Registrar of the University accompanied by the required fee: but no certificates shall be given for attendance at lectures unless the corresponding examinations have been passed.

COURSES FOR TEACHER-LIBRARIANS

Special evening courses for Teacher-Librarians and volunteer workers will be provided, if there is sufficient demand, giving instruction in the organization and management of school libraries, the selection and use of books for children, library work with pupils, and co-operation with the teaching staff. Further information may be obtained from the Secretary of the School.

EXTENSION COURSES

Evening extension courses in library subjects, when given, are announced in the bulletin of the Extension Department of McGill University, which may be obtained in September on application to that Department.

DESCRIPTION OF COURSES

The courses provided by the School are based upon the needs and opportunities presented by the librarian's four-fold relation to: the building in which his library is housed, the books and periodicals in his charge, the readers whom he serves, and the staff with whom he works. In teaching the various subjects of the curriculum, every effort is made to relate them to library work as a whole and to develop a dynamic rather than a mechanical point of view with regard to the present practice and the future possibilities of the profession.

Whenever possible, the past history, the practice of today and the probable future development of library activities are related, and students are encouraged to assume an attitude that is critical and forward-looking rather than one that is merely conventional and retrospective. The work of the School is grouped under the following headings for convenience of instruction: 1. Organization and administration of libraries. 2. The acquisition and care of library materials. 3. The selection and use of library materials. 4. Elective subjects. 5. Library practice.

I. ORGANIZATION AND ADMINISTRATION OF LIBRARIES

This group of courses is planned to give the future librarian a general idea of the ideals, functions, and successful running of libraries of different types. It is concerned with the place of the library in the community, the duties and opportunities of the librarian, and his relation to the trustees, staff, and readers. These courses form both framework and background for the more detailed instruction in technique and specialized services.

1. Organization and Management—Miss K. Jenkins and Dr. G. R. Lomer, 20 Lectures.

After an introductory survey of the relation of the library to other educational institutions the student becomes familiar through lectures and required reading with such topics as: the underlying principles of business and service organization; elements of library administration; the appointment, qualifications and duties of trustees; committees, meetings and minute book; the library budget, distribution of funds and accounts; statistics and reports; supplies and stock, inventory and checking stock; the qualifications of assistants, staff appointments and records, personnel management and work schedules; legislation affecting libraries in Canada; and the ethics of librarianship.

2. Library Buildings and Equipment—Professor P. J. Turner, 12 Lectures.

In this course the following subjects are discussed: basic principles and fundamentals in library planning; reading of architect's plans; the planning of small public libraries and branch libraries; college and university libraries; special libraries and private collections; furniture and equipment; heating, ventilation, and lighting; some outstanding libraries of the world.

The lectures are illustrated by lantern slides and specially prepared diagrams. Students are required to work out simple planning problems illustrating topics considered in the course.

3. College and University Libraries—Dr. Lomer, 8 Lectures.

After a brief survey of the historial development of college libraries, their present organization and problems are considered, including service to undergraduates, research students, and staff; departmental libraries; special collections and reading rooms; teaching the use of the library; the allocation of funds; dormitory libraries; inter-library loans; and such technical processes as differ from those in public and other libraries.

4. Library Extension and Adult Education—Miss V. Ross, 12 Lectures.

The history of library extension in municipal and rural areas of Canada and other countries is covered. The importance of the public library as an active agent in the solving of present and post-war problems of adult education is stressed. This includes a study of the social structure of the community; an estimation of the reading capacities, interests and needs of the people by means of library surveys; methods of improving the educational level and of supplying vocational guidance through readers' advisory work, instruction in the use of books and libraries, and visual and auditory services.

5. Library Publicity and Exhibits—Dr. Lomer and Miss V. Ross, 16 Lectures.

This course explains the principles of library publicity as applied to effective advertising; how to organize library campaigns, friends of the library groups; methods of co-operation with outside agencies. The technique of arranging library exhibits and schedules is explained, and practice is afforded in arranging exhibits and making posters.

6. Circulation—Miss G. Hamlyn, 8 Lectures.

The organization of the circulation department is studied including: equipment; registration of borrowers; a comparative study of the different methods of charging books; regulations and fines; supervision of reading room and stack; information; statistics. Practice at the circulation desk of various local libraries is given.

7. History of Books and Libraries—Dr. G. R. Lomer, 48 Lectures.

This course of lectures deals with the development of the arts of record from prehistoric times and provides the student with the cultural and historical background of writing materials, books and libraries. After the early forms of picture writing, the papyri of the Egyptians and the cuneiform records of the Babylonians and Assyrians are considered, some attention is given to the production and care of manuscripts in classical times, followed by a study of the illuminated medieval manuscripts and monastic

libraries. The latter part of the course includes the manuscripts of the Far East and the invention of paper and printing in China, the development of printing in Europe, the description of incunabula, modern typography, preparation and editing of copy for the printer and proofreading, processes of illustration, and a brief summary of library development in Europe and America.

The course is illustrated throughout by lantern slides and by examples from the Library Museum, and is supplemented by required reading and by visits to museums in Montreal and other large cities.

II. ACQUISITION AND CARE OF LIBRARY MATERIALS

The purpose of these courses is to acquaint the future librarian with the principles underlying wise, economical and adequate provision of books, periodicals, pamphlets, and other non-book material, etc., for library use and the best modern technique to be applied in recording them and in making them available to the public.

1. Accessions—Dr. G. R. Lomer, 12 Lectures.

After considering the principles of library policy underlying accessions, a flexible routine for the receipt and record of gifts is discussed, followed by practice in the use of trade bibliographies, publishers' lists, and second hand catalogues, English, American and foreign, as a basis for problems in ordering. The equipment and administration of this department, including the handling of invoices, fund records, and files, are also discussed. Practice is provided in the complete routine of ordering, in which the student makes out order cards, orders and invoices, and completes the recording and filing involved.

2. Classification and Cataloguing—Miss V. Murray, 88 Lectures.

1. General. The principles and purpose of classification and cataloguing are studied with a view to their application in libraries of different types and sizes. The Dewey Decimal classification is reviewed and A.L.A. catalog rules are examined in detail, with laboratory practice throughout the course in cataloguing and classification of books and in assigning subject headings.

2. Advanced. The history and theory of classification are covered and a comparative study is made of the Dewey, Library of Congress, Cutter, Brussels, and other classification schemes in modern use.

3. Filing Cards. Methods and rules for filing catalogue cards, L.C. cards, shelf list, etc.

4. Binding—Dr. G. R. Lomer, 12 Lectures.

The topics considered in this course include the following and are illustrated by samples, lantern slides, and visits to a bindery and the Library Museum. Materials, patterns, routine and records for book binding. Hand binding; the processes of sewing, forwarding, and finishing; types of sewing. Machine binding, reinforced library binding, and spiral wire binding. Binding for periodicals and serials, pamphlets and fugitive material. The care of and "first aid" repairs to books, with demonstration and practice.

III. SELECTION AND USE OF LIBRARY MATERIALS

While the students are being taught the processes involved in the care of books and are acquiring a professional background of knowledge and experience, the point of view and needs of the future reader are explained and provided for by a carefully planned study of the subject content of books and their adaptation to practical use in the libraries of various types.

During the first term Book Selection and Reference are studied separately and from a general point of view. In the second term they are combined and taught together in "special subject units" such as art, history and chemistry. All forms of material are reviewed including books, serial publications, government documents, pamphlet and other appropriate material.

1. Book Selection—Miss V. Ross, 40 Lectures.

This course deals with methods of selecting books for various types of libraries, communities and readers. Representative books of all classes are examined for their literary value, as well as their physical make-up, and various editions, translations and series are compared.

The student becomes familiar with the general and special printed aids to selection; the character and specialties of publishing houses and book agents; the problems of authorship, copyright and censorship; and important literature of the library profession, including library journals and book reviewing periodicals.

Training is given in book evaluation and annotation; written and oral book reviewing; compiling selective book lists.

2. Reference—Miss V. Ross, 84 Lectures.

The purpose of the course is to give students a practical understanding of the administration of a reference department, its clientele and the procedures involved in efficient reference and research work; and a critical knowledge of the basic types of reference materials such as encyclopedias, dictionaries, yearbooks, indexes, followed by the outstanding books in special subjects. Typical reference questions are given to students in order to develop their faculties in the use of these various books. Each student also makes an intensive study of the reference material in one selected subject.

3. Bibliography—Miss V. Ross, 8 Lectures.

Universal, national, trade and personal bibliographies, also bibliographies of bibliographies, union lists and library catalogues available in printed form are studied from the point of view of use. Subject bibliographies are considered in the reference course with the proper subjects. Class discussions are conducted for comparison of forms of entry and arrangement of lists. The bibliographical work of libraries, societies, etc., is surveyed. Compilation of a selective annotated bibliography is required.

4. Government Publications—Miss V. Ross, Miss H. Haultain, and Miss V. Murray, 16 Lectures.

The object of the course is to familiarize students with the character of British, Canadian and United States government documents in reference and research work, their source and distribution, and their care and use in libraries. Special attention is paid to the understanding and use of the various catalogues and indexes, and the organization of the different departments of government. Some attention is also paid to similar aspects of foreign documents and League of Nations publications.

5. Periodicals and Serials—Miss V. Murray, 16 Lectures.

A brief sketch of the historical development of the periodical form is given; study is made of the various types of serials published to-day, such as popular magazines, technical journals, house organs, and the publications of societies and institutions.

A systematic survey is made of the problems involved in the selection and ordering of periodicals and serials in English and foreign languages; checking and claiming; circulation, binding and storage; exchange of duplicates and completing of sets.

6. Non-book Materials—Dr. Lomer, Miss Ross, Miss Murray, 8 Lectures.

Problems arising in connection with the acquisition, care, and use of non-book materials in public and special libraries are considered.

1. Motion picture films, stills, photostats, lantern slides, and microfilm, including a brief explanation of the processes of photography.

2. Music recordings and sheet music.

3. Picture colletions, architectural drawings, blueprints, maps, and material of a similar nature.

4. Pamphlets, clippings, and other fugitive material.

5. The principles of alphabetical, geographical, numerical, subject and classified filing are studied, and applied to the care of information files, office records, pamphlets, and pictures.

IV. ELECTIVE SUBJECTS

The course as a whole is based upon the belief that successful specialization depends upon a thorough grounding in fundamental subjects and an adequate conception of the functions and processes of library work in general. The School therefore offers, in addition to its basic courses, opportunity for students to specialize in the second term in subjects that develop individual interests and prepare them for work in specialized fields.

1. Special Libraries—Miss B. Simon, 24 Lectures.

This course is designed to present the purpose and point of view of the special library and to discuss the adaptation of general library techniques to its use. Special attention is paid to the organization and administration of research libraries in business and industry, and the libraries of societies, foundations and similar institutions. Research methods and sources of information peculiar to each field are surveyed and discussed. Practice work in selected special libraries is provided and visits are made to outstanding types of special libraries in Montreal and other large cities. The demands made upon the special librarian for indexing books and serial material and abstracting scientific and economic periodical articles and books make it necessary for the student to become familiar with the methods involved, and to have some practice in answering requests for material of this type.

2. School Libraries and Children's Reading—Special Lecturers, 24 Lectures.

School library work as covered in this course shows the adaptations necessary in cataloguing and classification, reference work, book selection and general administration to serve the needs of the modern school. Methods of teaching students the use of books and libraries are considered in detail. Children's literature from the historical point of view is reviewed; modern illustrators and modern authors are discussed. Students have the opportunity of using a large collection of selected children's books owned by the Library School. The lectures are supplemented by problems, story telling, practical work and visits.

V. LIBRARY PRACTICE

As all courses are planned for the development and future guidance of a trained library assistant in a modern library (public, special, college, school, or children's) it is believed that satisfactory results can be obtained only through familiarity with the use of library materials and with the daily work of the practising librarian. To obtain such necessary experience in close relation to daily instruction the following types of practical work are required:

1. Laboratory Work.

The problems and laboratory work involved in the technical courses provide the conditions necessary for the practical application of the principles and methods taught.

2. Visits to Local Libraries.

In addition to the Redpath Library and the various special and departmental libraries at McGill University, the students have the opportunity of becoming familiar with Westmount Public Library, Mechanics Institute, Civic Library, Divinity Hall Library, Canadian Industries Library, Bell Telephone Company Library, Investment Library of the Sun Life Assurance Company, Library of the Royal Bank of Canada, Montreal Art Association Library, Montreal Children's Library, Montreal High School Library, D'Arcy Magee High School Library, Montreal Catholic School Commission Library, Commercial High School Library. Visits are also made to a technical photographic laboratory, printing house, publishing house and commercial bindery.

3. Library Visits to Other Cities.

A week's visit to other large cities, including a programme of conducted visits to libraries, is planned as a required part of the course. This aims to give the student an opportunity to observe the practical application of subjects taught.

4. Practice in Local Libraries.

(a) During one term a half-day of work each week in selected libraries in Montreal or its vicinity is required and gives the student an opportunity for progressive practice and for observation of daily routines in libraries where the pace is set by experienced workers. (40 hours.)

(b) Two weeks of continuous practical work under supervision is required after the examinations in May, in order that the student may acquire an appreciation of library work as a whole under everyday conditions. (72 hours.)

McGILL UNIVERSITY

MONTREAL

SCHOOL OF PHYSICAL EDUCATION

1943 - 1944

McGILL UNIVERSITY

SCHOOL OF PHYSICAL EDUCATION

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L.

Director of the Department of Physical Education.....Arthur S. Lamb, B.P.E.,M.D.,C.M.

Assistant Director of Physical Education for Women.....Iveagh Munro, M.A.

Bursar.....William Bentley, C.G.A.

Registrar.....T. H. Matthews, M.A.

A complete list of the teaching staff of the University, including the School of Physical Education, is printed as a separate announcement, which may be obtained from the Registrar's Office.

GENERAL INFORMATION

History and Aims.

The McGill School of Physical Education is an integral part of the University. It was established in 1912 and has grown from a short summer course to a full three years' course, the first year being spent in a recognized faculty of Arts and Science, or its equivalent. There is also a course for graduates leading to a higher diploma. The aim of the school is to provide Canada with well-qualified teachers of physical education who realize the contribution this subject should make towards sane and happy living.

The Field.

There is a steady demand for trained teachers in physical education and the field is rapidly widening to include such organizations as the following: Public and Private Schools; High Schools; Colleges; Y.M.C.A.'s; Y.W.C.A.'s; Church Clubs; Playgrounds; Recreation Centres; Welfare and Social Clubs; Settlements; Industrial Organizations; Boy Scouts; Girl Guides; Summer Camps, etc. For several years, the School has not been able to meet the demand for teachers.

COURSES OFFERED.

For the session 1943-44 the two courses will be restricted to women students.

For the Diploma:—One year in the Faculty of Arts and Science, or its equivalent, followed by a two-year course, from September to May, inclusive, is required for the Diploma of the School, and includes an analysis of the underlying principles of general education, educational psychology, the physical organism as a functioning unit, and a study of the possible contribution of physical education to the problems of modern civilization. Opportunity for practice teaching under staff supervision is provided.

For the Higher Diploma:—A one-year course available only for University graduates who show special aptitude for the teaching profession, good neuro-muscular skill, and have, in their undergraduate work, completed courses considered relevant to further study in physical education.

ENTRANCE QUALIFICATIONS.

For the Diploma:—Senior Matriculation, the successful completion of the first year in the Faculty of Arts and Science, or equivalent work done elsewhere. Specially recommended candidates holding the Quebec Intermediate Teachers' Diploma will also be admitted.

For the Higher Diploma:—This Diploma is available only for specially qualified candidates who hold a University degree, and whose preliminary study and experience are considered satisfactory. (*See page 834.*)

General:—A natural aptitude for, and previous training in, physical activities, together with a sense of rhythm, are essential. A student should know how to swim, play basketball and tennis, skate and have had some instruction in gymnastics and dancing before entering. It is recommended that a student should, if possible, have earned the Bronze Medallion of the Royal Life Saving Society.

Students who desire to follow this course, should consult the head of the Department concerning detailed requirements in motor activities.

The programme of physical education places a rare opportunity in the hands of the instructor, and thus necessitates a forceful personality, guided by high ideals and aspirations, an understanding of people and an ability to organize and control group activities.

FACILITIES.

The University Library and Museum are available for use by the students, as are the University Hockey Rinks, Tennis Courts, the Percival Molson Memorial Stadium and the Sir Arthur Currie Memorial Gymnasium.

A special library of selected works and the leading magazines on physical education are available for use by the students.

Exceptional facilities are afforded for practice teaching and observation in the Public Schools under the Protestant Board of School Commissioners, and in various institutions throughout the City.

COSTUME FOR WOMEN STUDENTS.

The regulation costumes of the School must be worn, and students are not permitted to wear other than the regulation garments. Measurement blanks are furnished upon registration and students are advised where the costumes can be secured. A list of articles required, with approximate cost, is sent to students on application.

TEXT-BOOKS.

Students are required to purchase text-books, as the University Library exists for supplementary reading only.

STUDENT ORGANIZATIONS.

All women students are members of the Women's Union of McGill University and all its affiliated societies.

PROFESSIONAL OPPORTUNITIES.

Students are required to attend lectures and functions relevant to their professional training from time to time. In order to start their own professional libraries, students are expected to purchase a certain number of representative books and mimeographed material recommended by the School. For this purpose and to cover the cost of accommodation at the "Ski School", a special fee, not exceeding $30.00 is deposited by each student.

ADMISSION.

For the session 1943-44 women students only will be admitted to the regular courses in the School. They will not be admitted if they are less than eighteen (18) or more than twenty-seven (27) years of age, except under special conditions. A personal interview is advisable, and applicants must have had some practical experience in physical work before registration.

A photograph (passport size) and two references, one from a former teacher, must be sent direct to the School. Neither reference should be from a relative.

Partial students, both men and women, may be admitted to special courses at the discretion of the Director, and the work done may count toward the Diplomas of the School.

REGULATIONS.

1. All students enter the School on an indeterminate probation. Students who are considered unsuitable for the profession are advised to discontinue.

2. A student may at the discretion of the Director be requested to withdraw at any time for reasons of unsatisfactory work or conduct.

3. Students are required to be present at all classes unless otherwise excused.

4. No student is permitted to participate in outside demonstrations, classes or teams, etc., without first having secured permission from the Director.

5. During the vacation period between the first and second years, all students are expected to do field work for a minimum of one month.

REGISTRATION AND FEES

Registration

Students in the School of Physical Education register at the Office of the School on September 13th, and the opening lecture will be given on Tuesday, September 14th. Students registering late are required to pay a late fee. Application forms should be returned not later than August 31st, 1943.

Fees.

The regular fees and special fees are given in the General Information Pamphlet included in this Announcement.

Dates for Payment.

Fees are due and payable at the Bursar's Office on Monday, September 13th, between the hours of 9 a.m. and 1 p.m. and 2.30 to 4 p.m., but they may be paid before that date. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees, the Bursar will send to the Director of the School, a list of the registered students who have not paid their fees. The Director will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

EXAMINATIONS AND PRIZES

Diplomas.

Diplomas are granted to successful students at the end of the course. Strathcona Certificates issued through the Strathcona Trust are granted to students on the completion of one year in the School.

The Diplomas of the School are recognized by the Protestant Committee of the Department of Education, Province of Quebec, and the Protestant Board of School Commissioners of Montreal as qualifying students who are British subjects for the rank of Specialist in the Public Schools.

Candidates for the Higher Diploma are urged to qualify professionally as High-school teachers of academic subjects before entering upon this course.

PRIZES.

1. GOLD MEDAL.—The School offers a gold medal to the student who attains the highest general proficiency throughout the course.

2. A Shield, presented by the Class of 1925, is awarded to the student attaining the highest standing in practice teaching throughout the course and is held for one year by the student.

3. A Cup, presented by the Class of 1916, is held for one year by the student who attains the highest standing in practical work.

4. LIEUTENANT-GOVERNOR'S SILVER MEDAL.—This prize is awarded to the Junior Student who attains the highest general proficiency in the sessional examinations.

N.B.—The above conditions may be amended and prizes may be withheld at the discretion of the Director.

COURSES OF INSTRUCTION

The University reserves the right to amend or cancel any of the courses stated below.

FOR THE UNDERGRADUATE DIPLOMA

YEAR I.

Anatomy and Physiology.
Psychology.
Personal, Community and School Hygiene.
Principles of Physical Education I.
Practice Teaching.
Theory and Practice of Sports.
Theory and Practice of Aquatics.
Theory and Practice of Dancing.
Theory and Practice of Gymnastic Activities.

YEAR II.

Physiology of Exercise.
History of Physical Education.
Principles of Physical Education 2.
Methods of Physical Education.
Organization and Administration of Physical Education.
Growth, Development and Adjustment of the Individual.
Practice Teaching.
Theory and Practice of Sports.
Theory and Practice of Dancing.
Theory and Practice of Gymnastic Activities.

FOR THE GRADUATE HIGHER DIPLOMA

Selected requirements from subjects in the First and Second years in accordance with the needs of the students. The time required to complete the work for this Diploma is determined after the qualifications and abilities of the student are evaluated. (*See page 830.*)

(a) Assigned study of special problems.
(b) Extended reading.
(c) Seminars.
(d) Essay.

DESCRIPTION OF COURSES

YEAR I

ANATOMY AND PHYSIOLOGY

The emphasis in this course is upon the body as a living mechanism in which the function and structure are inseparably related and in which the activities of all parts are intimately co-ordinated. Texts: Anatomy and Physiology, Williams (Saunders Co.).

3 hours. Laboratory periods by arrangement..... Dr. Lamb.

PSYCHOLOGY

A consideration of the nature and development of the child from infancy to adolescence—the dominant interests—the learning process—the emotional responses with the ultimate objective of gaining a better understanding of the characteristics of personality of the individual.

2 hours.....Mr. Orlick.

PERSONAL, COMMUNITY AND SCHOOL HYGIENE

An elementary study of the more common pathogenic organisms and communicable disease; their relation to health; precautions against; and means of combating pathogenic organisms.

Health organizations and the means for the maintenance of health; the effect of various occupations on health; the laws of heathful living and the responsibility of the individual.

Principles and methods of health teaching are included and a study made of the health education programme. It involves a study of ways and means of teaching the health material to children of different ages, so that it may lead to better habits of living and become effective in life.

2 hours.....Professor..... ; Miss Munro.

Principles of Physical Education I

An analysis of the aims of physical education and their relationship to those of general education. A study of age characteristics of elementary school children and presentation of appropriate games and rhythmic activities. Texts: Rhythms and Dances for Elementary Schools, La-Salle; Physical Education for Elementary Schools, Neilson and Van Hagen (Barnes).

3 hours, first term.....Miss Munro.

Practice Teaching

1. Assisting in a swimming class at Montreal High School.

1 hour, beginning the middle of first term.....Mrs. Tyrrell.

2. Assisting and teaching in various institutions in Montreal such as social service centres, hospitals, Y.W.C.A.'s and schools.

1 hour, second term.....Under supervision of staff.

Theory and Practice of Sports

In cases where the same sport is taken both years, the first year students concentrate on gaining skill of performance, in learning techniques and fundamentals of the game and the rules. In the case of less complicated sports which are given just one year, besides the above, teaching procedure, officiating and organization of material are also included in the course.

During the first three weeks of the year, the programme is devoted entirely to outdoor work. The activities taken are:—

Field Hockey	Tennis
Soccer	Soft ball
Track and Field.	

During the rest of the year, the following activities are taken:—

Basketball	2 hours, one term
Badminton	1 " " "
Volleyball (offered alternate years)	1 " " "
Winter Sports	1 hour

Following the mid-term examination, a "Ski School" of one week's duration is held in the Laurentian Mountains.

Miss Munro, Mrs. Tyrrell, Miss Wagner,
Mr. Van Wagner, and others.

Theory and Practice of Aquatics

Teaching progressions for strokes and diving; life saving; elementary canoeing and problems connected with water front activities and water safety precautions. Discussion of Canadian Amateur Swimming Association standards, meets, tests, charts, games and water pageants.

3 hours.....Mrs. Tyrrell.

Theory and Practice of Dancing

1. Backgrounds of the dance.

A survey of the history of the dance; consideration of modern dance as an art form; general methods of organizing and teaching various types of rhythmic activities for different age levels; analysis of movement and of rhythm and the problems involved; an understanding of the fundamentals of music and the use of music in physical education.

2 hours, first term. 1 hour, second term.....Miss Wagner.

2. Elementary Modern Dance.

Dance techniques for developing body control and for learning the possibilities of movement; rhythm training; experimentation with a variety of dance forms and the creation of the student's own dance compositions; practical experience with dance as an art form.

2 hours.....Miss Wagner.

3. Elementary Folk Dancing.

Study of simple traditional dance forms grouped according to countries so that the costumes, characteristics of the country and people, customs and other background material can be considered.

2 hours, second term.....Miss Wagner.

Theory and Practice of Gymnastic Activities

1. Theory of Gymnastics.

Study of terminology; of various types of gymnastics with and without music; of exercises suitable for various ages and types of classes; organization of lessons and courses; practice in presenting exercises and teaching lessons. Fundamental Gymnastics, Neils Bukh (Dutton).

3 hours, second term.....Miss Wagner.

2. Elementary Fundamental and Rhythmical Gymnastics.

Fundamental gymnastics. Stressing basic body conditioning, developing strength, flexibility and co-ordination. Done without music for training ability in setting and maintaining rhythm without outside help and because of uneven rhythm and sudden changes of tempo.

Rhythmical gymnastics. Also a development of general bodily skill as in fundamental gymnastics, but stressing more the response to music and exercises on the move.

2 hours.....Miss Wagner.

3. Tumbling and Stunts.

Use, organization and teaching procedures.

1 hour.....Mr. Finlay.

4. Elementary apparatus.

Development of fundamental skills on gymnasium apparatus from the standpoint of self-testing and methods of teaching.

1 hour.....Mr. Finlay.

YEAR II

Physiology of Exercise

A study by lectures and demonstrations of the effects of exercise on the neuro-muscular system, metabolism, respiration, circulation, etc. The effects of various types of exercise are studied in relation to the working power of the human machine and consideration given to the underlying principles in the selection of the best methods of exercise to employ.

Texts: Physiology of Exercise, Gould & Dye (Barnes), Bainbridge (Longmans Green), Schmidt & Sputh (Davis), McCurdy & McKenzie (Lee & Febiger), Schneider (Saunders).

2 hours, second term.....Dr. Lamb.

History of Physical Education

Study of the history of Physical Education from primitive times until the present day, including Political History and the History of Education in so far as they have influenced Physical Education. Discussion of the growth and scope of modern societies that aim to promote public welfare through health and recreation.

Extensive reading is required.

Text Book: Rice, Emmet A., "A Brief History of Physical Education."

2 hours.....Mrs. Tyrrell.

Principles of Physical Education 2

A continuation of Course 1. A study of programme construction in relation to the secondary school and adult groups; the extra curricular programme and its guidance; standards for judging the teaching and measuring results; the responsibilities, policies and relationships of the teacher of physical education.

2 hours, second term.....Miss Munro.

Methods of Physical Education

The material for this course includes a study of the current methods in general education and their definite application to the teaching of physical education. Observation of actual teaching situations followed by discussions.

2 hours, first term; 1 hour, second term.....Miss Munro.

Organization and Administration

A study of the various problems in organization and administration; from arranging a simple schedule of competitive events to the more complex problems of supervising and administering a Department.

2 hours.....Dr. Lamb, Mr. Van Wagner.

Growth, Development and Adjustment of the Individual

A study of human nature and behaviour through an integrated consideration of mental, emotional, social and physical aspects of growth; personality maladjustments; educational and social factors involved in promotion of healthy development.

2 hours.....Dr. Silverman.

Practice Teaching

1. Teaching in various institutions in Montreal.

1 hour.....Under supervision of Staff.

2. Each student is assigned to a school under the Montreal Protestant Board, and spends the full day with the regular physical education teacher, Gradually she takes on more of the classes, so that by the last week she is carrying a full schedule.

3 weeks in May, following the examination period.

Under supervision of Staff and Mr. J. G. Lang.

Theory and Practice of Sports

During the first three weeks, the same activities are taken as in the first year, but the stress is more on teaching, refereeing, testing, analysis, organization and selection of material in each sport. In addition, Archery is given.

During the rest of the first term, basketball is continued and special attention is given to a knowledge and understanding of rules; lead-up games; analysis of skills; tests; strategy and duties of officials.

Following the mid-term examinations, a "Ski School" of one week's duration is held in the Laurentian Mountains.

2 hours, first term.....Miss Munro, Mrs. Tyrrell, Miss Wagner, Mr. Van Wagner and others.

Theory and Practice of Dancing

1. Advanced Modern Dance—a continuation of the elementary course, going on to more difficult movements and stressing dance composition to a greater extent.

2 hours ..... Miss Wagner.

2. Advanced Folk Dancing—covering more advanced material than the elementary course.

2 hours, first term ..... Miss Wagner.

3. Clog and Tap Dancing.—Practice in basic clog and tap dancing steps with an understanding of their analysis and timing to music, learning of dances and routines from various sources and the creation of original dances.

2 hours, second term ..... Miss Wagner.

4. Social Dancing—Stress on methods and devices for teaching basic steps and leading into improvisation of students' own sequence of steps; organization of large groups of beginners for effective instruction, rhythm training and recognition of usual popular dance time signatures.

Hours as arranged during second term ..... Miss Wagner.

Theory and Practice of Gymnastic Activities

1. Remedial Gymnastics.

Consideration of normal physical development; principles for determining deviation from normal body structure and methods for correcting abnormalities; examination of children and practice in therapeutic measures and massage.

2 hours ..... Mrs. McKean.

2. Advanced Fundamental and Rhythmical Gymnastics.

A continuation of the work of the first year.

2 hours ..... Miss Wagner.

3. Advanced Apparatus.

Development of personal techniques and skill in presenting gymnastic activities suitable for elementary and secondary school programmes.

1 hour ..... Mr. Finlay.

McGILL UNIVERSITY

MONTREAL

SCHOOL FOR GRADUATE NURSES

1943 - 1944

McGILL UNIVERSITY

SCHOOL FOR GRADUATE NURSES

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.
Dean of the Faculty of Medicine.....J. R. Fraser, M.D., C.M., F.R.C.S. (C), F.A.C.S., F.R.C.O.G.
Director of the School for Graduate Nurses Marion Lindeburgh, R.N., M.A.
Assistant Director of the School for Graduate Nurses.....Mary S. Mathewson, R.N., B.S.
Bursar.....William Bentley, C.G.A.
Registrar.....T. H. Matthews, M.A.

ADVISORY COMMITTEE

Dean Fraser (Chairman)

Professor Grant Fleming — Miss M. L. Moag
Miss M. K. Holt — Miss Lindeburgh

A complete list of the teaching staff of the University, including the School for Graduate Nurses, is printed as a separate announcement which may be obtained from the Registrar's Office.

GENERAL STATEMENT

The graduate nurse today has greater opportunities for personal satisfaction and professional service than ever before. Since the outbreak of war, the shortage of qualified nurses to fill positions of responsibility in civilian hospitals and in the public health nursing field has become acute, owing to the steady withdrawal of personnel for military service in Canada and overseas. It is essential that a sufficient number of nurses should be prepared to fill these vacancies. This is imperative at a time when national defence demands that the highest possible level of nursing service be maintained.

In recognition of the seriousness of the present situation, as well as the implications for the future, the Canadian Nurses Association and other responsible groups are offering bursaries and loans to enable promising nurses to undertake a year of special study in one of the Canadian Universities which offer such courses.

This School was founded in 1920 to meet the needs of graduate nurses for special preparation in their chosen field. The programme has developed to keep pace with changing requirements. In addition to full time courses, facilities are available on a partial basis for local students who are interested in improving the quality of their service.

The resources of the School are at the disposal of qualified nurses who wish to prepare themselves for the responsibilities which they will inevitably be called upon to assume in the present crisis or in the reconstruction period to follow.

The following courses are offered:—

I. Teaching and Supervision in Schools of Nursing.

II. Public Health Nursing.

Advanced courses:—

III. Administration in Schools of Nursing.

IV. Administration and Supervision in Public Health Nursing.

Applicants for the advanced courses must present evidence of having held positions for at least two years in which they have demonstrated teaching and administrative ability as well as fitness for leadership. Course I or II, or the equivalent, followed by satisfactory experience, would provide the most desirable background for Course III or IV.

ENTRANCE REQUIREMENTS

1. All applicants must present evidence of the satisfactory completion of the undergraduate course in an approved school of nursing. Applicants must also be registered in the province or state from which they come.

For the advanced courses evidence of satisfactory professional experience must be presented.

2. A certificate of medical examination must be submitted as required by the University, and of successful vaccination within seven years or of insusceptibility to vaccine within five years, in accordance with provincial health regulations. In addition, students are required to report before November first for the health examination conducted by the University.

3. The School for Graduate Nurses recognizes any examination that is accepted by the Matriculation Board of McGill University as an alternative to the University's own Junior Matriculation Examination. The number of subjects or papers to be taken in any such examination is the number normally required to obtain Junior Matriculation standing in the Faculty of Arts and Science (e.g., ten papers in Quebec; eleven in British Columbia), but a wider choice of subjects is permitted.

The compulsory subjects are English, History, Algebra or Advanced Arithmetic, and Chemistry or Biology. Chemistry and Biology should *both* be taken if possible. The other subjects of the examination are entirely optional.

The Faculty of Arts and Science will admit a graduate of the School to the First Year of any of its courses with this Matriculation if the student is specially recommended by the School for Graduate Nurses.

CANADIAN CERTIFICATES RECOGNIZED

The Junior Matriculation Certificate of McGill University or any of the following:

PROVINCE OF QUEBEC.
The High School Leaving Certificate.
The Catholic High School Leaving Certificate.

PROVINCE OF ONTARIO.
Middle School Certificate.

PROVINCE OF NEW BRUNSWICK.
Junior Matriculation or High School Leaving Certificate.

PROVINCE OF NOVA SCOTIA.
Grade XI Certificate.

PROVINCE OF PRINCE EDWARD ISLAND.
Second Year Certificate of Prince of Wales College.

PROVINCE OF BRITISH COLUMBIA.
Junior Matriculation.

PROVINCE OF MANITOBA.
Grade XI Certificate.

PROVINCES OF ALBERTA AND SASKATCHEWAN.
Grade XI Certificate.

APPLICATION FOR ADMISSION

All applications must be made on forms which may be obtained from the School for Graduate Nurses, McGill University.

REGISTRATION

Students in Public Health Nursing will register on September 1st for field work.

Students in Teaching and Supervision will register on September 20th for field work.

Students in Administration will register on September 20th for field work.

University registration dates: September 28th and September 29th. The opening lecture will be given on September 30th.

SCHOLARSHIPS

Applicants for scholarships must meet the entrance requirements of the University. Preference will be given to applicants with experience in the nursing field.

1. ALEXANDRA HOSPITAL.

   The Board of Governors offers a scholarship of $100.00 in addition to maintenance at the hospital during a year's study at the School for Graduate Nurses. Members of the hospital nursing staff are eligible.

2. ASSOCIATION OF REGISTERED NURSES OF THE PROVINCE OF QUEBEC.

   A scholarship of $350.00 is offered to a member of the Association of Registered Nurses of the Province of Quebec, whose qualifications are acceptable to McGill University for any course selected in the School for Graduate Nurses.

3. CHILDREN'S MEMORIAL HOSPITAL SCHOOL OF NURSING.

   The Board of Governors offers a scholarship in the form of maintenance at the hospital during one year's study at the School for Graduate Nurses.

4. MONTREAL GENERAL HOSPITAL SCHOOL OF NURSING.

   1. Three annual scholarships are made possible by the Mildred Hope Forbes Memorial Scholarship Fund, established by the Honourable Cairine Wilson for graduates of the Montreal General Hospital School of Nursing.

   2. The Alumnae Association of the Montreal General Hospital School for Nurses offers a scholarship of $300.00. Only members of the Alumnae Association are eligible.

5. ROYAL VICTORIA HOSPITAL SCHOOL OF NURSING.

   1. The Board of Management offers an annual scholarship for a year's study at the School for Graduate Nurses.

   2. The Alumnae Association of the Royal Victoria Hospital School of Nursing offers the Mabel F. Hersey Scholarship for post-graduate work.

   3. An annual scholarship is awarded from the Dr. Garrow Fund for post-graduate study.

   4. The Emma Thomas Scholarship is offered for post-graduate study.

6. SHRINERS' HOSPITAL FOR CRIPPLED CHILDREN.

   A scholarship in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses is offered by the Board of Governors of the Montreal Unit to registered graduate nurses who have affiliated as student nurses at the Shriners' Hospital.

7. VICTORIAN ORDER OF NURSES FOR CANADA.

The Victorian Order of Nurses for Canada offers a limited number of scholarships of $400.00 each to nurses taking a year's post-graduate course in public health nursing. Candidates who have been on the staff of the Order for two months or more will be given preference.

8. THE HOMOEOPATHIC HOSPITAL OF MONTREAL.

The Alumnae Association of the Homoeopathic Hospital School for Nurses offers a scholarship of $200.00 for a year's study at the School for Graduate Nurses. Only members of the Alumnae Association are eligible.

EXAMINATIONS

The pass mark in all examinations, in keeping with University regulations, is fifty per cent.

Results of examinations are recorded according to class, as follows: Class I, 80% to 100%; Class II, 65% to 79%; Class III, 50% to 64%.

FEES AND DEPOSITS

TUITION FEES*

1. For the regular certificate courses, per session..... $165.00
   By instalments: First instalment..... 85.00
   Second instalment..... 85.00

2. Registered students not proceeding to a Certificate are classed as Partial Students and pay $14.00 per hour of instruction per week for a full course, but the maximum fee shall not exceed that charged for a regular certificate course.

   Partial Students taking courses in the Faculty of Arts and Science will pay the fees as outlined in the Announcement of that Faculty.

3. Fees for Laboratory Courses are $7.00 per hour of instruction per week for the academic year. This fee will cover laboratory materials, reagents and use of instruments and apparatus but it will not cover losses through waste, neglect or breakage. The charges under this head will be deducted from the student's caution money.

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*Includes Registration, Graduation, Health, Library and Campus privileges.

4. The following fees are payable by students taking field work:

Public Health Nursing (Students who are exempt from the preliminary field work pay $15.00).	$25.00
Teaching and Supervision	10.00
Administration	10.00

5. Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 1 p.m., and 2.30 to 4.00 p.m. on Wednesday, September 29th, or if desired they may be remitted by mail before the above date. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

6. Immediately after the prescribed dates for the payments of fees, the Bursar will send to the Director of the School a list of the registered students who have not paid their fees. The Director will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

NOTE: Special fees are given in the General Information Pamphlet included in this Announcement.

BOARD AND RESIDENCE

Every assistance is given to students in finding suitable living accommodation. A list of approved lodgings is kept on file in the School, and approval of the Director must be secured before making final arrangements for board and room.

EXPENSES

Approximate Cost of the Course:—Students who register in those courses requiring field work will take this extra time into consideration in estimating their expenses. Estimate of average expenses for the academic year (30-32 weeks) is as follows:

University fees	$200.00		
Books and laboratory fees	20.00	to	$ 40.00
Board and lodging	400.00	"	500.00
Incidentals	30.00	"	40.00
Average total	650.00	"	750.00

COURSES

I. TEACHING AND SUPERVISION IN SCHOOLS OF NURSING

This course prepares qualified nurses for positions as instructors and supervisors in schools of nursing. A period of satisfactory experience in nursing following completion of the undergraduate course is considered a prerequisite. The required field work will be adjusted to meet the individual needs.

Required Courses

Faculty of Arts and Science

Sociology 1
Education 1, 1st term
Chemistry 16

Nursing Education

A. General

Nursing Legislation
Public Health and Nursing
History of Nursing
Mental Health
*Bacteriology
*Physiology

B. Teaching and Supervision

Nursing Education
Principles and Methods of Teaching
Observation, Practice Teaching and Field Work
Ward Administration, Teaching and Supervision.

Substitute or additional courses may be permitted at the discretion of the Director.

II. PUBLIC HEALTH NURSING

This course prepares qualified nurses for staff positions in public health nursing organizations.

The required field work will be adjusted to meet individual needs.

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*Students have a choice of Physiology or Bacteriology.

Required Courses

Faculty of Arts and Science

Sociology 1
Education 1, 1st term

Nursing Education

A. General

Bacteriology
Mental Health
Public Health and Preventive Medicine
Nutrition
Social Case Work
Nursing Legislation

B. Public Health Nursing

Public Health Nursing
*Public Health Nursing—Fieldwork
Teaching in Public Health Nursing.

Substitute or additional courses may be permitted at the discretion of the Director.

*Field Work in Public Health Nursing

Experience under supervision, or field work, is an integral part of the course in Public Health Nursing. The basic field work requirement is twelve weeks. The schedule for students without previous experience is as follows:—

4 Weeks preliminary field work in September.
6 Weeks field work in May and June.
2 Weeks or equivalent field work during the Session.

This requirement is adjusted to meet individual needs and students will not be expected to repeat experience which has been gained under adequate supervision.

Uniforms

A special one-piece wash uniform is required for field work, with white collar, cuffs and black tie. Information regarding the ordering of uniforms will be sent to accepted students. Any plain dark hat and coat may be worn.

III. ADMINISRATION IN SCHOOLS OF NURSING

This course prepares qualified nurses for positions as principals of Schools of Nursing and directors of Nursing Service in hospitals. Applicants for the course must show evidence of a satisfactory record of two or more years in an executive position. The course "Teaching and Supervision in Schools of Nursing" or the equivalent, followed by satisfactory experience would provide the most desirable background for this advanced course. The required field work will be adjusted to meet individual needs.

Required Courses

Faculty of Arts and Science

Sociology 2

Economics 1, or Psychology 9

Nursing Education

A. General

To be selected on the basis of individual needs.

B. Administration

Administration in Schools of Nursing

Field work in Administration in Hospitals and Schools of Nursing

Hospital Administration.

Substitute or additional courses may be permitted at the discretion of the Director.

IV. ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING

This course prepares qualified nurses for positions as supervisors and directors in public health nursing organizations.

The course "Public Health Nursing" or its equivalent, and at least two years of satisfactory experience in the field are prerequisite.

Required Courses

Faculty of Arts and Science

Sociology 2 or Sociology 7

Economics 1 or Psychology 9.

NURSING EDUCATION

A. General

To be selected on the basis of individual needs.

B. Administration and Supervision in Public Health Nursing

Administration in Public Health

Administration and Supervision in Public Health Nursing

Problems in Administration and Supervision in Public Health Nursing

Field work in Administration and Supervision in Public Health Nursing.

Substitute or additional courses may be permitted at the discretion of the Director.

COURSES IN THE SCHOOL FOR GRADUATE NURSES

ADMINISTRATION IN SCHOOLS OF NURSING

Organization and administration of the School of Nursing; its function and control; educational policy and programme. Special problems relating to staff and students.

Two hours (second term).....Miss Marion Lindeburgh and special lecturers.

ADMINISTRATION IN SCHOOLS OF NURSING—FIELD WORK

Field trips to schools of nursing, hospitals and health organizations in the community, weekly conferences; reports of observation. During the month of September provision is made for preliminary observation in affiliated hospitals. At the end of the term a short period of special field work is arranged to meet individual needs.

PUBLIC HEALTH NURSING

Public health nursing today; evolution, objectives, functions and methods with emphasis on family health, records and statistics; application of principles and methods to development of community health service including adequate maternal, infant, pre-school, school and industrial nursing programmes; principles of organization and administration. This course is closely linked with observation and practice in the field.

Three hours.....Miss Mary S. Mathewson and special lecturers.

PUBLIC HEALTH NURSING—FIELD WORK.

a. Field trips to health and social agencies in the community.

b. One half day each week in the field during second term.

c. Ten weeks of supervised practice in public health nursing. This requirement is reduced for those who have had previous experience under adequate supervision.

ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING.

General principles of administration and supervision; executive and educational functions; application to the field of public health nursing; organization, financial support, personnel selection and management; staff and student education; relationships; administrative and supervisory programmes.

Three hours.....Miss Mary S. Mathewson and special lecturers.

ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING—FIELD WORK.

Field work with health and social agencies. Observation of methods and content of supervision followed by conference and discussion.

Practice in administration and supervision in the field.

PROBLEMS IN ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING.

Discussion of problems of organization and supervision; publicity; staff education; field studies, reports and conferences.

Two hours.....Miss Mary S. Mathewson and special lecturers.

ADMINISTRATION IN PUBLIC HEALTH.

General principles underlying public health organization, legislation and administration; services of official and voluntary agencies; programme planning, vital statistics and present day epidemiological practice.

The teaching is closely correlated with observations in the field.

Two hours, first term.

Dr. R. St. J. Macdonald, Dr. F. G. Pedley, and other lecturers.

NURSING EDUCATION.

Present trends and developments in nursing education, surveys and reports; a brief historical review of schools of nursing in their relation to hospitals; practices in professional education, application to nursing education; school of nursing curricula.

Two hours, first term.....Miss Marion Lindeburgh.

PRINCIPLES AND METHODS OF TEACHING.

Psychological principles underlying learning and teaching; effective study habits; selection and organization of subject matter. Principles of curriculum organization; classification of subjects in the nursing curriculum; application of principles and modern methods of teaching; integration of health and community aspects throughout basic course; tests and measurements.

Two hours.....Miss Marion Lindeburgh.

OBSERVATION, PRACTICE TEACHING AND FIELD WORK.

First term—Observation in affiliated schools of nursing; reports of observation, conferences.

Second term—Observation and practice in teaching in affiliated schools of nursing; weekly conferences.

Field work—During the month of September provision is made for preliminary observation in local hospitals. After examinations in May a short period of special field work is arranged to meet individual needs.

WARD ADMINISTRATION, TEACHING AND SUPERVISION.

Ward management; problems of nursing service and nursing education; personnel; staffing; duties, responsibilities and relationship of head nurse and clinical supervisor; the ward teaching programme; methods of assignment; principles and application of educational supervision; special methods of clinical teaching; evaluating students and their work.

Two hours, second term.....Miss Marion Lindeburgh and special lecturers.

HISTORY OF NURSING.

An historical review; as a means of securing an appreciation of nursing traditions and ideals; as a means of understanding and interpreting trends and developments in modern nursing; consideration of source materials, and effective methods of teaching.

One hour, second term.....Miss Mary S. Mathewson.

NURSING LEGISLATION.

A general survey of legislative developments in nursing in various countries; particular emphasis upon registration, and measures for legislative control in Canada.

One hour, second term.....Miss E. Frances Upton.

HOSPITAL ADMINISTRATION.

Lectures and observations—This course deals with the hospital and its relation to the community; the board of trustees, the medical board and the general staff; problems of planning, organization, equipment and administration of the various departments; the purchase and handling of supplies and other problems of hospital administration.

Two hours, first term.....Dr. J. C. Mackenzie and other lecturers.

PUBLIC HEALTH AND PREVENTIVE MEDICINE.

A brief history of the development and present status of public health administration; the control and prevention of communicable diseases; maternal and child hygiene; sanitation, housing, water, food and milk supply; industrial hygiene, health education.

Three hours.....Professor Grant Fleming and special lecturers.

NUTRITION.

Elements of nutrition; nutritive properties of foods. Practical application of these principles; budgeting.

Two hours, one term.....Dr. D. L. Thomson and special lecturers.

MENTAL HEALTH.

A study of the nature of human behaviour, the basic principles of mental health and the intellectual, emotional, physical and social factors involved in personality maladjustments and mental disorders.

Two hours.....Dr. Baruch Silverman.

TEACHING IN PUBLIC HEALTH NURSING.

A. Psychological principles underlying learning and teaching; selection and organization of subject matter.

General principles and methods underlying health teaching programmes as applied to home, school and community situations.

B. Observation and Practice in teaching; conferences.

Two hours.....Miss Marion Lindeburgh, Miss Mary S. Mathewson.

BACTERIOLOGY.

A combined lecture and laboratory course.

Four hours, first term.....Dr. Donald Fleming.

SOCIAL WORK.

A study of the current practice of representative social agencies and their relation to the public health nursing programme. A discussion course supplemented by family studies, observations and demonstrations.

Two hours, first term.....Miss Dorothy King and special lecturers.

PUBLIC HEALTH AND NURSING.

Health problems of today; evolution of the modern public health movement; objectives and programmes of official and voluntary agencies; role of nurse in promotion of public health objectives; methods in public health nursing; study of community health needs and resources; visits to selected health agencies and observation with the public health nurses in homes.

Three hours, first term . . Prof. Grant Fleming, Miss Mary S. Mathewson and special lecturers.

PHYSIOLOGY.

A short course linking internal anatomy with physiological functions of organs and the activities of the body considered as an integrated system. Demonstrations of mammalian material and methods of dissection are included.

Two hours, second term . . . . . Dr. Kathleen G. Terroux.

COURSES IN THE FACULTY OF ARTS AND SCIENCE

PSYCHOLOGY 9 (Educational Psychology).

Three hours . . . . . Professor W. D. Tait.

SOCIOLOGY 1 (Introductory Course).

Three hours . . . . . Professor C. A. Dawson.

SOCIOLOGY 2 (The Community).

Three hours . . . . . Professor C. A. Dawson.

SOCIOLOGY 7 (The Family).

Three hours . . . . . Professor C. A. Dawson.

CHEMISTRY 16 (Chemistry of Daily Life).

Two hours . . . . . Professor W. H. Hatcher.

ECONOMICS 1 (Introductory Course).

Three hours . . . . . Professor John Culliton.

EDUCATION 1 (General Principles).

Three hours, 1st term . . . . . Professors John Hughes and A. B. Currie.

MACDONALD COLLEGE

(McGILL UNIVERSITY)

ANNOUNCEMENT

OF THE

FACULTY OF AGRICULTURE

SCHOOL OF HOUSEHOLD SCIENCE

AND

THE SCHOOL FOR TEACHERS

FOR THE SESSION 1943-44

MACDONALD COLLEGE, QUE.

GENERAL INFORMATION

POST OFFICE ADDRESS:—There is a post office in the main building, and all mail should be addressed simply: Macdonald College, Que.

RAILWAYS:—Ste. Anne de Bellevue, Que., is on the main lines of the Canadian National Railways and of the Canadian Pacific Railways, 20 miles west of Montreal. The local stations are but a short walk from the College. Baggage checks should be surrendered at the Secretary's Office, Room 11, Main Building, where arrangements will be made for the transfer of baggage upon entering and leaving College.

FREIGHT AND EXPRESS:—The address for express or freight parcels is:—Ste. Anne de Bellevue (Jacques Cartier Co.), Que.

TELEGRAMS:—Telegrams should be addressed:—Macdonald College. Ste. Anne de Bellevue, Que.

TELEPHONES:—Administrative:—Ste. Anne de Bellevue, No. 335.
Men's Residence:—Ste. Anne de Bellevue, No. 407, 810.
Women's Residence:—Ste. Anne de Bellevue, No. 806, 830.

HIGHWAY:—The Quebec provincial highway No. 2 passes through Ste. Anne de Bellevue.

BANK AT STE. ANNE DE BELLEVUE:—The Bank of Montreal.

CHURCHES:—The following denominations are represented at Ste. Anne de Bellevue:—

Church of England in Canada,
Roman Catholic Church in Canada,
United Church of Canada.

Students of all religious denominations are free to enter Macdonald College. The regulations of the Council of Education of the Province of Quebec apply only to students in the School for Teachers.

INDEX

	Page
Absence from Classes	913
Administrative Officers	894
Advanced Diploma Course	920
Advancement from Year to Year	944
Advisory Committee on Agriculture	895
Affiliated Colleges	890
Agriculture, Faculty of	889, 912
Alliance Française Medals	980
Application Forms	899, 966
Associate Committee on Parasitology	895
Association of Protestant Teachers' Prize	980
Attendance at Classes	913
Badminton Challenge Cup	983
Baseball Cup	983
Bathing Suits	908
B.Sc. (H.Ec.) Course	958
Bishop Carlisle Prize	980
Board and Lodging	905
Books, Supplies	906, 964, 976
Bryson (Ella) Scholarship	982
B.Sc. (Agr.) Course	921
Bursaries	968, 977, 983
Calendar for Session	897
Cameron (A. Kirke) Prize	981
Caution Money Deposit	905
Committees	895
Conduct of Students	900
Conklin Trophy	978
Contagious Diseases	902
Courses Offered	912
Courses, Detailed Descriptions of:—	
B.Sc. (Agr.)	927
Diploma	914, 920
B.Sc. (H.Ec.)	959
Homemakers	955
Teachers	971

Courses, Evaluation of 924
Courses of Study 924, 946-954
Cutler Shield 978

Degrees in Agriculture 921, 945
Degrees in Household Science 958
Departmental Services 984
Deposit with Application 912
Diploma Course in Agriculture 913
Diplomas, Teachers' 969

Elementary Diploma 967, 970
Entrance Requirements:—
- General 912
- B.Sc. (Agr.) Course 921
- Diploma Course 913
- B.Sc. (H.Ec.) Course 959
- Homemaker Course 955
- Pupil Dietitian Course 964
- School for Teachers 965

Evaluation of Courses 924

Examinations in:—
- Diploma Course 918
- B.Sc. (Agr.) and B.Sc. (H.Ec.) Courses 943
- Homemaker Course 958
- School for Teachers 970

Examinations, Supplemental 919, 945, 958
Excursions, Farmers' 984
Expenses 905

Extension Service:—
- Faculty of Agriculture 984
- School of Household Science 985

Faculty of Agriculture 889, 912
Farm Experience 924
Farmers' Excursions 984
Fees 903
Firearms 900
Fisher Trust Fund 977

General Information 882
General Agriculture Option 925
General Biology Option 925
Governor General's Medal 978, 980

885

Graduate Courses 945
Graduation Requirements 924
Grant to Agriculture Students 909
Guests 899, 902
Gymnasium Costumes 908

Hersey (Milton L.) Prizes 981
High School Teachers' Diploma 970
High School, Macdonald 976
Hill (Sarah Emma) Scholarship 982
Homemaker Course 955
Honour Standing 944
Household Science, School of 889, 955

I.O.D.E. Bursary 978, 982
Illness 900, 906
Institute of Parasitology 890
Instructors 891
Intermediate Diploma 967

Judges and Speakers 984

Kindergarten Director's Diploma 967, 970
Kneeland (Gardner) Memorial Prize 981

Laundry 905
Leave of absence 901, 902
Library 983
Library Committee 896
Lieutenant Governor's Medals 977, 978, 979, 980
Liquor 900
Living Expenses 905
Lochhead Memorial Prize 978

Macdonald College 889
Macdonald High School 976
Macfarlane (Frederica Campbell) Prize 979
Major Subjects 925
McGill University 888
Minister of Agriculture Medal 977
Montreal Housewives' League Prize 979
Montreal Local Council of Women Prize 980
Music 902

Nicol (Hon. Jacob) Prize 981
Nova Scotia Agriculture College Scholarship 978

Officers, Administrative 894
Officers of Instruction 891
Outfit Requirements for Women Students 907
Outremont Protestant Teachers' Association Prize 981

Parasitology, Institute of 890
Partial Courses 913, 955
Pass Standing 944
Payments 908
Pre-holiday Leave 900
Prince of Wales Medal 980
Prizes and Scholarships 977
Probation 943
Provincial Government Grant 909
Pupil Dietitian Course 964

Quarantine 902
Quebec Government Grant 909

Registration 899
Religious Instruction 975
Requirements for Graduation 924
Residence Rules, General 899
Residence Rules, Women Students 901
Robb (Janet Morison) Bursary 982
Robins (Dr. S. P.) Memorial Prize 981
Room Furnishings 906

Scholarships and Prizes 977
School for Teachers 889, 965
Single Rooms 905
Specimens sent for Examination 985
Stern Cup for Stock Judging 978
Stewart-Richardson (Lady Constance) Swimming Cups 983
Stewart (Walter M.) Collection 983
Student Activities 905
Summer Work for Students 926
Suspension 900
Superintendent of Education Medal 980
Supplemental Examinations 919, 945, 958
Syllabi 946-954

Teachers, School for 889, 965
Teachers' Diplomas 969
Text Books 906, 964, 976
Todd (Dr. John L.) Gymnastic Medals 983
Travelling Expense Refund 969
Trips, Household Science 906

Uniforms 907
University Scholarships 979

Visitors 899, 902, 984

Ward (T. Fred) Swimming Trophy 978
W.C.T.U. (Frances Willard) Prize 981
Wilson (J. C.) Prize 980

McGILL UNIVERSITY

VISITOR

His Excellency the Governor-General of Canada.

GOVERNORS

Sir Edward W. Beatty, G.B.E., K.C., LL.D., D.C.L., Chancellor.
F. Cyril James, Ph.D., D.C.L., LL.D., Principal and Vice-Chancellor.
W. M. Birks, LL.D.
John W. Ross, LL.D.
Huntly R. Drummond.
J. W. McConnell.
F. N. Southam.
Walter M. Stewart.
W. W. Chipman, B.A., M.D., LL.D., D.C.L., F.R.C.S. (Edin.), Hon. F.R.C.O.G.
George C. McDonald, M.C., B.A.
Arthur B. Wood, B.A., F.I.A., F.A.S.
Paul F. Sise, B.Sc.
Hon. A. K. Hugessen, K.C., B.A., B.C.L.
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Ross Clarkson.
John C. Newman.
G. W. Spinney, D.C.L.
A. T. Bazin, D.S.O., M.D., C.M., F.R.C.S. (C).
Hugh A. Crombie, B.Sc.
G. McL. Pitts, B.Arch., M.Sc.

PRINCIPAL

F. Cyril James, Ph.D., D.C.L., LL.D.

MACDONALD COLLEGE

Macdonald College, which was founded and endowed by the late Sir William C. Macdonald, is incorporated with McGill University, and is situated twenty miles west of Montreal, at Ste. Anne de Bellevue, Que. It is composed of the Faculty of Agriculture, which includes the School of Household Science, and of the School for Teachers for the Protestant schools of the Province of Quebec.

FACULTY OF AGRICULTURE

The work of the agricultural departments of the College falls into three main divisions: teaching, research, and extension. Teaching and research form the major part of their work. Extension service is undertaken by departments as the need or opportunity may arise.

Macdonald College is officially recognized as the finishing institution for students who have taken their preliminary training at the Nova Scotia College of Agriculture, Truro, Nova Scotia.

The terms of the affiliation provide:—

That the entrance requirements for degree work at Truro shall correspond to those required by the Faculty of Agriculture, McGill University; and

That the Nova Scotia College of Agriculture, in consultation with Macdonald College, shall so co-ordinate her courses that it shall be possible for students from Truro to enter the advanced classes at Macdonald College with the same degree of training and academic equipment as those who have had preliminary training at the latter institution.

THE SCHOOL OF HOUSEHOLD SCIENCE

The School of Household Science is an integral part of the Faculty of Agriculture. The main function of the School is teaching, in relation to the home and for professional service in institutions.

SCHOOL FOR TEACHERS

The School for Teachers is a School of McGill University, controlled by a committee established under an agreement with the Government of the Province of Quebec. The School trains elementary, intermediate, and kindergarten teachers for the Protestant schools of the Province of Quebec.

For the duration of the war the School for Teachers will be operated at Strathcona Hall, 772 Sherbrooke St. W., Montreal.

THE INSTITUTE OF PARASITOLOGY

This Institute, located at Macdonald College, is governed by a joint committee of the National Research Council and McGill University, and has, as its main functions, the prosecution of research on animal parasites and the instruction of graduate students.

ASSOCIATED COLLEGES

By special agreement, certain institutions have arranged to provide their students with a course of study substantially equivalent to the first two years in Agriculture and Household Science at Macdonald College. Students who have satisfactorily completed such a course of study and are specifically recommended by the authorities of their college are permitted to enter the third year at Macdonald College.

The following are the Institutions with whom the foregoing arrangement exists:—

Nova Scotia College of Agriculture, Truro, N.S
(Agriculture only);
Prince of Wales College, Charlottetown, P.E.I.
(Agriculture and Household Science);
Memorial College, St. John's, Newfoundland
(Agriculture and Household Science).

MACDONALD COLLEGE

(McGILL UNIVERSITY)

PRINCIPAL

F. CYRIL JAMES, PH.D., D.C.L., LL.D.

VICE-PRINCIPAL

W. H. BRITTAIN, M.S. in Agr. (Cornell), PH.D. (Cornell), F.R.S.C.

OFFICERS OF INSTRUCTION

FACULTY OF AGRICULTURE

Dean:—W. H. BRITTAIN, M.S. in Agr. (Cornell), PH.D. (Cornell), F.R.S.C., Professor and Chairman of the Department of Entomology.

HENRY R. C. AVISON, M.A., Lecturer in English.

C. A. V. BARKER, B.V.Sc., (Toronto), Lecturer in Veterinary Science.

G. H. BENHAM, B.Sc., Ph.D. (Lond.), Assistant Professor of Chemistry.

J. NORMAN BIRD, M.A. (Toronto), M.S.A., Lecturer in Agronomy.

THOMAS W. M. CAMERON, T.D., M.A. (Edin.), B.Sc. (Vet. Sci.) (Edin.), D.Sc. (Edin.), PH.D. (Lond.), M.R.C.V.S., F.R.S.C., Professor of Parasitology; Director of the Institute of Parasitology.

J. H. COOPER, B.Sc. (Agr.), Lecturer in Agricultural Engineering.

JOHN G. COULSON, M.A. (Queen's), Associate Professor and Chairman of the Department of Plant Pathology.

EARLE W. CRAMPTON, M.S. (Iowa), Ph.D. (Cornell), Professor of Animal Nutrition.

H. W. CUNNINGHAM, Instructor in Dairying.

C. A. DAWSON, B.A., Ph.D. (Chicago), Professor of Sociology and Chairman of the Department (Faculty of Arts and Science).

WALTER A. DELONG, B.S.A. (Toronto), M.Sc. (McGill), PH.D. (Minnesota), Assistant Professor of Chemistry.

E. MELVILLE DUPORTE, PH.D., Associate Professor of Entomology.

P. H. H. GRAY, M.A. (Oxon), D.Sc. (Lond.), Associate Professor and Chairman of the Department of Bacteriology.

LIONEL H. HAMILTON, M.S. (Wisconsin), Assistant Professor of Animal Husbandry, Director of Diploma Courses, and Field Representative.

L. G. HEIMPEL, M.S. (Cornell), Associate Professor and Chairman of the Department of Agricultural Engineering.

S. R. N. Hodgins, M.A., B.S.A., Assistant Professor of English and Journalism. (On leave of absence).

C. L. Huskins, M.Sc., (Alberta), Ph.D., D.Sc., (London), F.R.S.C., Professor and Chairman of the Department of Genetics (Faculty of Arts and Science).

E. C. Irvine, M.A., B.Paed., Lecturer in Mathematics.

Enid P. Knight, M.Sc., Demonstrator in Chemistry.

J. E. Lattimer, Ph.D. (Wisconsin), F.R.E.S., Professor and Chairman of the Department of Agricultural Economics.

E. A. Lods, M.S.A., Assistant Professor of Agronomy.

R. A. Ludwig, M.Sc. (Alberta), Demonstrator in Plant Pathology.

W. A. Maw, M.S.A., Associate Professor and Chairman of the Department of Poultry Husbandry.

William D. McFarlane, Ph.D. (Toronto), Professor and Chairman of the Department of Chemistry.

Frank O. Morrison, B.A., B.Sc., in Agriculture, M.Sc. (Alberta), Ph.D., Lecturer in Entomology.

H. R. Murray, M.Sc. (Cornell), Associate Professor and Chairman of the Department of Horticulture.

J. A. Nelson, M.Sc. (Alberta), Demonstrator in Chemistry.

A. R. Ness, B.S.A., Professor and Chairman of the Department of Animal Husbandry.

N. Nikolaiczuk, M.Sc. (Alberta), Lecturer in Poultry Husbandry.

A. N. Nussey, B.Sc. (Agr.) Lecturer in Pomology.

William Fraser Oliver, B.A., (McMaster), M.A., Ph.D. (Toronto), Lecturer in Physics.

J. M. Paton, M.A., B.Paed., Assistant Professor and Chairman of the Department of English.

L. C. Raymond, M.S. (Wisconsin), Associate Professor of Agronomy.

W. Rowles, M.Sc., Ph.D., Associate Professor and Chairman of the Department of Physics.

G. W. Scarth, M.A. (Edin.), D.Sc., F.R.S.C., Professor and Chairman of the Department of Botany (Faculty of Arts and Science).

J. F. Snell, B.A. (Toronto), Ph.D. (Cornell), F.C.I.C., F.C.S., Emeritus Professor of Chemistry.

Robert Summerby, M.S.A. (Cornell), Professor and Chairman of the Department of Agronomy.

William E. Swales, B.V.Sc. (Toronto), V.S. (Ontario), Ph.D., Research Associate.

F. S. Thatcher, Ph.D., Lecturer in Bacteriology.

A. H. Walker, Instructor in Floriculture.

W. E. Whitehead, M.Sc., Lecturer in Entomology.

C. L. Wrenshall, Ph.D., Assistant Professor of Chemistry. (On leave of absence).

SCHOOL OF HOUSEHOLD SCIENCE

Director:—Margaret S. McCready, B.A. (Toronto), Assistant Professor of Nutrition.

Dorothy Cliff, B.H.S., Assistant in Textiles and Clothing.

F. Isabel Honey, M.A., Lecturer in Educational Methods and Foods and Cookery.

Alice M. Stickwood, B.S., M.A., Lecturer in Foods, Dietetics and Institution Administration.

G. Gwendolyn Taylor, B.H.S., Lecturer and Supervisor of Home Management House.

To be appointed: Assistant in Household Science: Dietitian.
Demonstrator in Household Science: Dietitian.

SCHOOL FOR TEACHERS

Dean and Director:—Sinclair Laird, M.A., B. Phil., Officier de l'Instruction Publique; Professor of Education.

Rev. Cyril H. Adair, B.A., B.D., Honourary Lecturer in Religious Instruction.

Novah E. Brownrigg, B.A., Lecturer in French.

Evelyn K. Elderkin, B.Sc., Lecturer in Art and Interior Decoration.

Frank K. Hanson, Mus. B., Lecturer in Music.

Jean M. Hayward, B.S., (Columbia), Kindergarten Teacher and Instructor in Kindergarten Methods.

A. R. B. Lockhart, M.A., Lecturer in Elementary Education.

J. M. Paton, M.A., B.Paed., Assistant Professor and Chairman of the Department of English.

Violet B. Ramsay, Lecturer in Primary Methods and Nature Study.

Dorothy J. Seiveright, M.A., Lecturer in History and Geography.

Alice F. Spicer, B.A., B.S. in Phys. Ed., Instructor in Physical Training.

William A. Steeves, B.A., Ed.M., Assistant Director of Practice Teaching and Headmaster of Macdonald High School.

Rev. Canon F. L. Whitley, M.A., Honourary Lecturer in Religious Instruction.

Macdonald High School (Demonstration and Practice School)

Teachers:—

Elsie Copping Armstrong.
Marguerite Brayne.
Margaret S. Darker.
Margaret M. Drysdale.
Jean M. Hayward.
Grace E. Revel, French Specialist.
Jessie Snaden.

Mrs. J. Murray Gibbon, Honorary Librarian.

ADMINISTRATIVE OFFICERS

Secretary, Macdonald College
T. Fred. Ward

Registrar, Macdonald College
A. B. Walsh, B.Sc. (Agr.)

Bursar, McGill University
William Bentley, C.G.A

Registrar, McGill University
T. H. Matthews, M.A

Librarian
Ernest H. Mutton

Medical Officer
R. F. Kelso, M.A , M.B

Director of Department of Physical Education
(McGill University)
A. S. Lamb, B.P.E., M.D.

Warden of Men's Residence
R. A. Chapman, M.Sc.

Warden of Women's Residence
Mrs. Marion G. Strang

Resident Nurse, Men's Residence
M. E. Scott, S.R.N.

Resident Nurse, Women's Residence
To be appointed.

COMMITTEES

ADVISORY COMMITTEE ON AGRICULTURE

The Dean of the Faculty of Agriculture (Chairman).
The Principal.

W. H. Cook, B.Sc., M.Sc., Ph.D., Associate Research Biologist, National Research Council, Ottawa.

J. M. Swaine, Ph.D., F.R.S.C., Ottawa, representing the Dominion Department of Agriculture.

L. Philippe Roy, D.Sc.A., D.V.M., Quebec,
Georges Maheux, Quebec. } *Representing the Quebec Department of Agriculture.*

F. E. M. Robinson, M.A., Upper Melbourne, Que.
R. R. Ness, Howick, Que. } *Representing the live stock farming industry.*

Morley Honey, Abbotsford, Que., representing the fruit farming industry.

ASSOCIATE COMMITTEE ON PARASITOLOGY

C. J. MacKenzie, M.C., B.E., M.C.E., D.Sc., LL.D., Acting President, National Research Council, Ottawa.
F. Cyril James, Ph.D., D.C.L., Principal, McGill University. } *Joint Chairmen*

W. H. Cook, M.Sc., Ph.D., Director ,Division of Biology and Agriculture, National Research Council, Ottawa, *Vice-Chairman.*

G. S. H. Barton, C.M.G., B.S.A., D.Sc.A., Deputy Minister of Agriculture, Ottawa.

W. H. Brittain, M.S. in Agr., Ph.D., F.R.S.C., Vice-Principal, Macdonald College.

A. E. Cameron, M.C., V.D., V.S., Veterinary Director General, Department of Agriculture, Ottawa.

T. W. M. Cameron, T.D., B.Sc., M.A., Ph.D., D.Sc., M.R.C.V.S., Director of the Institute of Parasitology, Macdonald College.

J. R. Fraser, M.D., C.M., F.R.S.C. (C), F.A.C.S., F.R.C.O.G.

J. M. Swaine, Ph.D., R.F.S.C., Director of Research, Dominion Department of Agriculture.

J. M. Veilleux, V.S., Chief, Health of Animals Service, Department of Agriculture, Quebec, Que.

T. Fred. Ward, Secretary, Macdonald College.

E A. Watson, V.S., Chief Pathologist, Department of Agriculture, Ottawa.

G. D. W. CAMERON, Chief of the Laboratory of Hygiene, Department of Pensions and National Health, Ottawa.

S. P. EAGLESON, Secretary-Treasurer, National Research Council, Ottawa (Secretary).

LIBRARY COMMITTEE

DEAN W. H. BRITTAIN, *Chairman*.
THE PRINCIPAL.
DEAN SINCLAIR LAIRD.
MISS M. S. MCCREADY.
DR. G. R. LOMER

CALENDAR FOR THE SESSION 1943-44

1943

Tuesday, Sept. 7th.....Registration, School for Teachers.

Monday, Sept. 27th.....Supplemental examinations, B.Sc. (Agr.) and B.Sc. (H.Ec.) students. Field work begins for students taking Ag. Eng. 30 or Hort. 31.

Wednesday, Sept. 29th...Registration, B.Sc. (Agr.), B.Sc. (H.Ec.), and Third Year Diploma Course students.

Thursday, Sept. 30th.....Lectures begin for B.Sc. (Agr.), B.Sc. (H.Ec.), and Third Year Diploma Course students.

Wednesday, Oct. 6th.....Convocation.

.....Thanksgiving Day. No lectures.

Monday, Nov. 1st.....Registration, Diploma Course students.

Saturday, Dec. 18th.....Last day of lectures before Christmas, all schools.

1944

Monday, Jan. 3rd.....Supplemental examinations, all classes in Agriculture and Household Science.

Monday, Jan. 3rd
to
Friday, Jan. 7th, inc.....Intermediate and Elementary class practice teaching, Montreal and elsewhere.

Monday, Jan. 3rd.....Lectures resumed in Agriculture and Household Science, 8.30 a.m.

Monday, Jan. 10th.....Lectures resumed in School for Teachers, 9.00 a.m.

Monday, Jan. 17th.....First term examinations begin, Agriculture and Household Science.

Monday, Jan. 24th.....Second term begins for all classes in Agriculture and Household Science, 8.30 a.m.

Thursday, Feb. 10th.....Macdonald College Founder's Day. No afternoon classes.

(*Sir William C. Macdonald, born February 10th, 1831, died June 9th, 1917*)

Friday, March 31st	Second Term ends for Diploma Course students.
Saturday, April 1st	Supplemental examinations, Diploma Course.
Monday, April 3rd to Thursday, April 6th, inc.	Intermediate and Elementary classes practice teaching, Montreal and elsewhere.
Friday, April 7th to Monday, April 10th, inc.	Easter vacation.
Tuesday, April 25th	Examinations begin, B.Sc. (Agr.) and B.Sc. (H.Ec.) courses.
Sunday, April 30th	Baccalaureate Service, 3.00 p.m.
Wednesday, May 24th	Victoria Day.
Thursday, May 25th	Convocation.
Thursday, June 8th	Closing Exercises, School for Teachers. End of session.

ADMISSION

A form of application for admission to the Faculty of Agriculture, including the School of Household Science, will be found at the end of the Announcement. Prospective students must read the details relating to entrance requirements.

Prospective students of the School for Teachers are referred to page 965.

REGISTRATION

Students are required to register before 4 p.m. on the opening day of each session of the Faculty or School in which they have been accepted, and before entering residence to obtain a residence card from the Secretary's Office. Registration at a later date is permitted only to those who obtain the consent of the Dean or Director of the Faculty or School concerned.

Students are not permitted to enter any class until they have registered.

Students arriving before the opening day, or remaining after the close of the session, will be charged at the rate of $3.00 per day, unless such arrival in advance, or delay in leaving, is due to steamship connections.

Upon registering students are required to sign the following declaration:—"I hereby accept and submit myself to the rules and regulations of Macdonald College, and of the Faculty or School thereof in which I am registered, and to any amendments thereto which may be made while I am a student of the College, and I promise to observe the same."

Any student who is unwilling to submit cheerfully to the restrictions of college life, whose conduct does not furnish satisfactory evidence of diligence and earnestness of purpose, or whose work is definitely unsatisfactory, may be required to withdraw from the college.

RESIDENCE

All regular students are required to live in residence.

Rooms must be claimed in person on the opening day.

Students may not invite relatives or friends to stay overnight in the residence without permission from the Warden of Residence and an admission card from the Secretary's Office.

For the admission of visitors to the Dining Room the permission of the Secretary must be obtained and tickets procured in advance from the Office of the Dietitian, Women's Residence.

Students are held responsible for the care of their rooms and of their furnishings.

Students are recommended to mark clearly, in indelible ink, before coming to the College, all articles of wearing apparel, sheets, pillow cases, etc.

Detailed regulations are printed separately and issued to students after arrival.

CONDUCT

The general responsibility for the maintenance of discipline in each Hall of Residence is vested in a Warden, but, through a system of self-government, students are encouraged to accept the greatest possible amount of responsibility in connection with their own affairs. Enforcement of necessary regulations, exaction of disciplinary measures, and regulation of conduct *in and out of residence*, is largely in the hands of a House Committee for each residence, elected by the students from among their own number.

Matters of discipline connected with or arising from the general arrangement for teaching within a Faculty or School are under the jurisdiction of the Dean of the Faculty or Director of the School concerned.

Students may be admonished by a professor or instructor for improper conduct and may be reported to the Dean or Director concerned. If considered advisable, such conduct shall be reported to parents or guardians.

Students found guilty of immoral, dishonest, or other improper conduct, the violation of rules, or wilfully causing damage to persons or property, shall be liable to College discipline, which includes the power of expulsion (subject to the approval of the Senate of McGill University), of suspension from classes or residence (in the case of women students, confinement to residence), of disqualification from competing for honours or prizes, and of levying of fines. Fines may also be imposed or assessments made for damages made by individuals or groups of students.

Bringing liquor into the College is considered a serious breach of discipline, and students who indulge in the use of liquor, or who frequent places where it is sold, may be required to withdraw from the College.

Students are not permitted to bring firearms into their rooms, nor is the use of firearms allowed on the College grounds.

Students are requested not to make application for additional leave either before or after holiday periods, as such leaves can only be granted in case of illness or other exceptional circumstances.

For late registration or for absence from classes on the last day before or the first day following a holiday period, there will be a penalty of $3.00 for each day or part of a day.

During illness students are under the direction of the Medical Officer and may not leave the residence without his express permission.

LEAVE-OF-ABSENCE

Women Students

Women students in residence, in order to avail themselves of the following leaves, must present at the beginning of each session a form signed by parent or guardian, giving general permission or specifying the manner in which leaves may be spent. Blank forms will be sent to all students before the date set for registration.

Except in cases of emergency, telephone messages or telegrams requesting leave-of-absence for women students will on no account receive consideration.

Allowances for leaves are based on the student's year. A student is entitled to the privileges of her year only when in good academic standing. Conditioned students in the second, third or fourth year have the allowances granted to the year below.

All women students are granted the following privileges:—(1) Freedom of movement, except during class hours, in the town of Ste. Anne de Bellevue, until 7.45 p.m.; (2) A "free day" after lectures on Saturdays, the return to the residence to be not later than 10.00 p.m.; (3) Late leave in Ste. Anne de Bellevue on Satuday, lasting until 11.00 p.m.

In addition, first year students are granted two week-end leaves per month and two late leaves per month. Second year students are permitted two week-end leaves per month and one late leave per week. Third year students have three week-end leaves per month, one late leave per week, and two 12.15 leaves a month. Fourth year students have four week-end leaves per month, two late leaves per week, one 12.15 leave a week and one 2.00 a.m. leave a week. All senior students are permitted to go to Montreal outside of class hours. returning not later than 7.45 p.m. Students are required to register in the "leave book" when going and returning.

Students wishing to stay at hotels, lodges, etc., when on leave are required to have the written consent of their parents to do so.

On no account shall a student be absent from college without the knowledge and consent of the warden. Absence from college without permission is a serious offence which renders the student liable to instant suspension or dismissal. If prevented from returning after an absence due to illness or other cause, students must advise the Warden immediately, and such students must report at the Warden's office immediately upon their return.

All applications or communications regarding the conduct of women students in residence should be addressed to:

The Warden,
Women's Residence,
Macdonald College, Quebec.

Women students will, if necessary, be excused from lectures and residence on a Saturday to visit a physician, on production of a letter from the physician indicating the hour of appointment.

In cases of urgency, dental appointments are allowed, but students are requested to have dental work attended to before entrance.

Men Students

First Year Diploma and Degree students must obtain permission from the Dean should they wish to have overnight leave-of-absence. All students who expect to be absent from the College should leave some record of their movements.

CONTAGIOUS OR INFECTIVE DISEASES

Students on holiday, or accepted candidates for admission, who become subject to an attack of any contagious or infective disease, or who reside in any dwelling in which any such disease exists, shall be subject to the following quarantine regulations:—

	Quarantine to be required after last exposure to infection.	Earliest date of return or admission to College after an attack.
Scarlet Fever	14 days	Six weeks, and then only if no desquamation or sore throat.
Diphtheria	12 days	Three weeks, if convalescence is complete, provided two negative throat cultures at least twenty-four hours apart have been obtained.
Measles	16 days	Three weeks, if all desquamation and cough have ceased.
Whooping-Cough	21 days	Six weeks from commencement of whooping, if the characteristic spasmodic cough and whooping have ceased. Earlier if all cough has gone.
German Measles	16 days	Two or three weeks, according to the nature of the attack.
Mumps	24 days	Two weeks after the disappearance of all swelling.
Influenza	14 days	Two weeks after disappearance of definite symptoms of influenza.
Typhoid	21 days	Four weeks if all symptoms have disappeared and convalescence is complete.
Small-pox	16 days	Two weeks after the desquamation (which follows the falling of scales) has completely terminated.
Chicken-pox	14 days	Ten days after the desquamation has completely terminated.

In all cases of students, or accepted candidates for admission, suffering from, or coming in contact with those suffering from any contagious or infective disease, a medical certificate shall be required before they are allowed to return to the College.

VISITORS TO STUDENTS

Saturday is visitor's day. In the afternoon, students are free to see their friends and show them around the buildings and grounds. Men visitors to women students are allowed only in the reception rooms in the Women's Residence, and only on specially arranged occasions.

MUSIC

Music finds a place in the recreative and social activities of the College. Concerts, organ recitals, lectures, etc., will be given from time to time. It is suggested that those having violins, cellos, or other orchestral instruments, should bring them.

TUITION AND LABORATORY FEES

FACULTY OF AGRICULTURE

Registration Fee

Students in Agriculture ..... $ 5.00

Tuition

Diploma Course:—

Residents of Canada ..... Free
Students from outside of Canada $50.00

B.Sc. (Agr.) First and Second Years:—

Sons, daughters, etc., of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces. Free
Other residents of Canada ..... $ 50.00 per year
Students from outside of Canada ..... $100.00 per year

B.Sc. (Agr.) Third and Fourth Years:—

Residents of Canada ..... $ 50.00 per year
Students from outside of Canada ..... $100.00 per year

Partial Students:—

	Per Course Per Term	Per Year Min.	Max.
Diploma Course:—			
Residents of Canada	$ 5.00	$10.00	$25.00
Students from outside of Canada	10.00	20.00	50.00
B.Sc. (Agr.):—			
Residents of Canada	5.00	10.00	50.00
Students from outside of Canada	10.00	20.00	100.00

The maximum fees for students taking courses in both curricula are those applying to the B.Sc. (Agr.) curriculum.

Definitions

1. *Residents of Canada:*—Those whose parents, or who themselves, are *bona fide* rate-payers, or those who have resided continuously in Canada for two years.

2. For purposes of determining fees for tuition, the status of a student at entrance obtains throughout the course for which he registers.

Laboratory Fees

Diploma Course ..... $ 5.00 per year
B.Sc. (Agr.) First and Second Years ..... 10.00 per year
B.Sc. (Agr.) Third and Fourth Years ..... 15.00 per year

Partial Students:—

	Per Course Per Term	Per Year Min.	Max.
Diploma Course	$5.00	$10.00	$10.00
B.Sc. (Agr.) First and Second Years	5.00	10.00	10.00
B.Sc. (Agr.) Third and Fourth Years	5.00	10.00	15.00

The maximum fees for students taking courses in both curricula are those applying to the B.Sc. (Agr.) curriculum.

Supplemental Examination Fees

Regular Supplemental Examinations, for each examination period (morning or afternoon) ..... $ 2.00
Special Supplemental Examination $5.00

Other Fees

Conferring Degree *in absentia* $10.00
Official transcript of student's record $1.00

SCHOOL OF HOUSEHOLD SCIENCE

Registration Fee

Students in Household Science $5.00

Tuition

B.Sc. (H.Ec.) Degree Course:—
Residents of Canada ..... $100.00 per year
Students from outside of Canada ..... $125.00 per year
Homemaker Course:—
Daughters, etc., of farmers of the Province of Quebec ..... Free
Other residents of Canada ..... $150.00 per year
Students from outside of Canada ..... $175.00 per year
Partial Students:—
Registration fee $5.00
Tuition ..... $5.00 per course per term

Laboratory Fees

B.Sc. (H.Ec.) Degree Course $15.00
Homemaker Course $10.00
Partial Students ..... Minimum $10.00

Supplemental Examination Fees

Regular Supplemental Examinations, for each examination period (morning or afternoon) $2.00
Special Supplemental Examination $5.00

Other Fees

Conferring Degree *in absentia* $10.00
Official transcript of student's record $1.00

SCHOOL FOR TEACHERS

Tuition

All Students ..... Free

Laboratory Fees

All Students ..... $10.00 per year

OTHER EXPENSES

Caution Money

Every student must make, at the time of registration, a cash deposit of $5.00 with the Secretary of the College, to cover fines, breakages, etc.; and as soon as any student's deposit is exhausted he or she will be required forthwith to make an additional deposit of the same amount.

Student Activities

Students entering the College are reminded that there are various student activities, such as the athletic associations, literary societies, class societies, etc., which they are expected to join. These affairs are in the hands of the students themselves, and the expenses of these organizations amount, for the session, as follows:—For

	Men	Women
Students of courses one year and longer.....	$11.35	$7.50
Diploma Course in Agriculture.....	$ 9.55	

At the request of the students themselves, the above fees will be collected from all students for the support of the athletic associations, literary societies, skating rink, etc.

Living Expenses

The charges for board and lodging are $8.00 per week.

There are a few single rooms in the Women's Residence; occupants of these are charged $1.50 per week extra.

If students, on account of the large number of applications received, cannot be accommodated in the College Residence, board and lodging may possibly be obtained for them in the town of Ste. Anne de Bellevue.

A laundry fee of $1.00 for the session is payable by all women students for use of the laundry provided in the Women's Building, which will be open at certain hours daily.

Students are required to send their personal washing to the College Laundry, except such small things as may be done by the women students themselves. Moderate prices will be charged. Printed laundry lists will be furnished, two copies of which, properly filled out, must accompany each parcel.

Illness Charges

Medical and nursing attendance, major operations and illness excepted, will be provided to all students while in residence at the College. For this a charge per student for the session will be made as follows:—

Diploma Course in Agriculture..... $3.50
All other students..... $4.00

Students will pay the cost of medicines as furnished.

When it is necessary to remove a student to a city hospital, all charges, including medical attendance, must be borne by the student or his guardian.

A charge of 25 cents extra per meal will be made for all meals served in a student's room or outside the dining room, such meals being provided only when approved by the Warden.

Books

Books, etc., in connection with the various courses may be purchased at the College Book Shop. In order to reduce the expense of textbooks as far as possible to individual students, an arrangement has been made whereby students of the School for Teachers will pay to the Secretary the sum of $2.00 per session for the use of books in certain departmental libraries; this will save students the necessity of purchasing individual copies of expensive books.

Household Science Trips

Students in Household Science are taken to visit various institutions in Montreal, in connection with their work, from time to time during their course, more especially in the senior years. Each student is responsible for her own expenses, which are kept to the minimum amount.

Supplies

Material and supplies required for classes in Textiles and Clothing are provided by the students concerned and purchased at the direction of the instructor.

Room Furnishings

Bedrooms are furnished with closets, beds, mattresses, blankets, pillows and rugs, and the necessary furniture.

Each student is expected to provide his or her own laundry bag, toilet soap, drinking glass, four sheets, about 90 inches long, 60 inches wide; two pillow covers, 34 inches long, 20 inches wide; hand towels and bath towels.

Each room is provided with picture moulding. Students are permitted to bring rugs, pictures, etc., but are not allowed to drive tacks or nails into walls or woodwork, or to paste pictures on the walls.

For the benefit of students wishing to provide covers, the following measurements are given:—

Table top:—48 inches long, 32 inches wide; bureau top:—42 inches long, 22 inches wide; washstand top:—36 inches long, 18 inches wide.

Women students are required to provide sash curtains and curtain rods for the windows in their rooms. Material for the curtains, which costs 25c. per yard, as well as the curtain rods, must be purchased at the College Book Shop.

Outfit Requirements for Women Students

School of Household Science:—

B.Sc. (H.Ec.) and Homemaker Students.

Dresses.—Two dresses are necessary. The material required is from 4 to 4½ yards for each uniform. It is 32 inches wide, 65 cents per yard, and is obtained from the Secretary on receipt of amount covering quantity required. The material must be shrunk before being made up and, to allow for further possible shrinkage, skirts should be made with a six-inch hem. Skirt should be of reasonable length according to present fashions. Sleeve should be just above the bend of elbow on the inside.

Collars.—Special white collars are to be worn with dress and fastened by a bar pin, both of which should be obtained at the College Book Shop at 35 cents and $1.30 respectively. A collar must be obtained with the uniform material and be used in determining the opening at the neck of the blouse, which should be cut only low enough to permit of the collar being fastened in front by the bar pin. In addition to the pin the only jewellery permitted to be worn with the uniform is a watch and a class pin or class ring.

Aprons.—Four aprons of white long cloth or linen, coming to within two inches of the bottom of the dress, are necessary for work at cookery classes. One coloured apron is required, the material to be the same as the dress. Material required—3½ to 4 yards.

Aprons should be made from a standard nurse's apron pattern, with gored skirt and bib top.

Pattern for the dress will be enclosed with dress material for forty-five cents additional. *Dresses must be made according to this pattern with matching belt and white buttons.* Dress pattern comes in sizes 32-40. *Be sure to specify size required when ordering.*

Towels.—Four small white huckaback hand towels, one-half yard long, with a button-hole in one corner to button to waistband.

Potholders.—Two, each six inches square, covered with dress material and a bias binding of same, with a white tape to button to waistband.

Aprons, towels and potholders are not required by B.Sc. (H.Ec.) students until they enter the second year.

All the above pieces must be marked clearly in indelible ink with student's name.

Shoes.—White oxfords with low rubber heels are required. Stockings must also be white.

Workbasket.—Equipped with scissors, tape line, thimble, etc., for clothing classes.

The uniform is worn at all classes, and prospective students are requested to note carefully the regulations with reference to it. If in doubt in regard to any detail, write to the Director of the School for information.

Candidates for admission should await notice from the College of their acceptance before ordering uniform material.

School for Teachers:—Until further notice, no uniform will be worn. The following suggestions are given as a guide. Shirtwaist dresses in either wool or rayon in the darker colours are ideal for day wear. Suitable colours are navy, brown, black, dark green and wine. Comfortable shoes with medium or low heels are required.

A smock of cotton material is useful when teaching certain subjects and when engaged in practical work.

Gymnastic Costume

Women students taking work in the gymnasium will be required to wear the regulation gymnastic costume consisting of a tunic, shirt waist, knickers, black running shoes, and *extra long* non-transparent black stockings. Tunics should be rented from the College Book Shop for the session; shirt waist, knickers, shoes, and stockings may be purchased from the Book Shop for $1.50, 60 cents, $1.25, and $1.00 respectively. Round garters must *not* be worn with gymnastic costume. Athletic girdles may be purchased from the Book Shop for $1.10.

Students wishing to swim must provide themselves with woolen bathing suits of guaranteed fast colour.

PAYMENTS

All fees are payable in advance. There is no refund of fees to student who leave for any cause other than personal illness, nor to those who are dismissed for neglect of work or violation of the rules.

Payments for board must be made from time to time throughout each term, at the beginning of each period of four weeks, *strictly in advance.*

Payments in advance may be made for a longer period than four weeks.

No allowance is made for absence during temporary suspension from residence, nor for absence of less than one week for any cause other than personal illness. No extra allowance will be made to students who have obtained pre-holiday leave.

Students who fail at any time to make payment for board promptly in advance *will be charged $2.00 extra* for each time such failure occurs.

A list of the registered students whose accounts with the Secretary are in arrears will be sent to the Dean or Director of the Faculty or School concerned, on receipt of which the Dean, or Director, shall cause their names to be struck from the registers of attendance, and such students cannot be readmitted to any class or residence except on presentation of a special notice signed by the Secretary, certifying to the settlement of such account.

The Secretary's Office will be open to receive payments from 9 a.m. to 4.30 p.m. daily—except Saturday, on which day the hours will be from 9 a.m. to 12 noon.

All cheques, money orders, etc., should be drawn to the order of "The Secretary, Macdonald College, Que.," to whom all remittances, orders for dress material, etc., must be directed.

PROVINCIAL GOVERNMENT GRANT

The Department of Agriculture of the Province of Quebec grants to each graduate and undergraduate student in Agriculture who belongs to the Province of Quebec, and is registered for regular courses, $9.00 per month of attendance in studying according to the time table in the Faculty of Agriculture, Macdonald College, to apply on board and lodging. This amount will be paid in two instalments, in January and in May.

PAYMENTS AT ENTRANCE—MEN

	Registration Fee	Tuition per Session	Laboratory Fee	Caution Money Deposit	4 Weeks' Board in Advance	Medical Charge	Student Activities	School for Teachers' Textbooks Reduction (Page 26)	TOTAL
FACULTY OF AGRICULTURE (a):—									
Diploma Course First and Second Years:—									
Residents of Canada	$5.00	Free	$ 5.00	$5.00	$32.00	$3.50	$ 9.55	.....	$ 60.05
Students from outside of Canada	5.00	$50.00	5.00	5.00	32.00	3.50	9.55	.....	110.05
B.Sc. (Agr.) First and Second Years:—									
Sons, etc., of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces	5.00	Free	10.00	5.00	32.00	4.00	11.35	.....	67.35
Other residents of Canada	5.00	50.00	10.00	5.00	32.00	4.00	11.35	.....	117.35
Students from outside of Canada	5.00	100.00	10.00	5.00	32.00	4.00	11.35	.....	167.35
B.Sc. (Agr.) Third and Fourth Years:—									
Residents of Canada	5.00	50.00	15.00	5.00	32.00	4.00	11.35	.....	122.35
Students from outside of Canada	5.00	100.00	15.00	5.00	32.00	4.00	11.35	.....	172.35
Graduate Students	.....	.....	.....	.....	32.00			.....	32.00(b)
SCHOOL FOR TEACHERS:—									
All Classes	.....	Free	10.00	5.00	32.00	4.00	11.35	2.00	64.35

(a) Students in Agriculture of the Province of Quebec receive, at the end of each term, a grant from the Provincial Government of $9.00 per month of attendance on account of board. See page 909.

(b) For further fees see Announcement of the Faculty of Graduate Studies and Research, McGill University, Montreal, Que.

PAYMENTS AT ENTRANCE—WOMEN

	Registration Fee	Tuition per Session	Laboratory Fee	Caution Money Deposit	4 Weeks' Board in Advance (a)	Medical Charge	Laundry Fee	Student Activities	School for Teachers' Textbooks Reduction (Page 26)	TOTAL
FACULTY OF AGRICULTURE (b):—										
B.Sc. (Agr.) First and Second Years:—										
Daughters, etc., of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces	$5.00	Free	$10.00	$5.00	$32.00	$4.00	$1.00	$7.50	.....	$ 64.50
Other residents of Canada	5.00	$50.00	10.00	5.00	32.00	4.00	1.00	7.50	.....	114.50
Students from outside of Canada	5.00	100.00	10.00	5.00	32.00	4.00	1.00	7.50	.....	164.50
B.Sc. (Agr.) Third and Fourth Years:—										
Residents of Canada	5.00	50.00	15.00	5.00	32.00	4.00	1.00	7.50	.....	119.50
Students from outside of Canada	5.00	100.00	15.00	5.00	32.00	4.00	1.00	7.50	.....	169.50
SCHOOL OF HOUSEHOLD SCIENCE:—										
B.Sc. (H.Ec.) Degree Course:—										
Residents of Canada	5.00	100.00	15.00	5.00	32.00	4.00	1.00	7.50	.....	169.50
Students from outside of Canada	5.00	125.00	15.00	5.00	32.00	4.00	1.00	7.50	.....	194.50
**Homemaker Course*:—										
Daughters, etc., of farmers of the Province of Quebec	5.00	Free	10.00	5.00	32.00	4.00	1.00	7.50	.....	64.50
Other residents of Canada	5.00	150.00	10.00	5.00	32.00	4.00	1.00	7.50	.....	214.50
Students from outside Canada	5.00	175.00	10.00	5.00	32.00	4.00	1.00	7.50	.....	239.50
GRADUATE STUDENTS	.....	.....	.....	.....	32.00	.....	1.00	.....	.....	33.00(c)
SCHOOL FOR TEACHERS:—										
All Classes	.....	Free	10.00	5.00	32.00	4.00	1.00	7.50	$2.00	61.50

(a) Occupants of single rooms are charged $1.50 extra per week.

(b) Students in Agriculture of the Province of Quebec receive, at the end of each term, a grant from the Provincial Government of $9.00 per month of attendance on account of board. See page 909.

(c) For further fees see Announcement of the Faculty of Graduate Studies and Research, McGill University, Montreal, Que.

* Discontinued until after the war.

FACULTY OF AGRICULTURE

The following courses of study are offered in the Faculty of Agriculture:—

I. Courses in Agriculture:—

(a) Partial Courses (page 913).
(b) A two-year Diploma Course (page 913).
(c) Advanced Diploma Course (page 920).
(d) A four-year Course leading to the Degree of Bachelor of Science in Agriculture, (B.Sc. [Agr.]) (page 921).
(e) Graduate Courses in the Faculty of Graduate Studies and Research, McGill University (page 945).

II. Courses in Household Science:—

(f) Partial Courses (page 955).
(g) A one-year (Homemaker) Course (page 955). Discontinued for the duration of the war.
(h) A four-year Course leading to the Degree of Bachelor of Science in Home Economics (B.Sc. [H.Ec.]) (page 958).

ENTRANCE REQUIREMENTS

General

All candidates for admission:—

1. Except where otherwise provided, must have passed their seventeenth birthday.

2. Must produce satisfactory evidence as to moral character.

3. Must produce medical certificate of physical health. A certificate of vaccination must be attached as follows:—(a) Successful vaccination within seven years; or, (b) Immunity to vaccine after two recent unsuccessful vaccinations—such certificate of immunity to be good for five years from date.

When the number of women candidates is in excess of the accommodation, preference will be given to those from the rural districts of Quebec, the Maritime Provinces, and Eastern Ontario.

NOTE:—Form of application for admission will be found at the end of the announcement.

Permission to Study

Every candidate for admission to the Degree Course in Agriculture must, before beginning his course, obtain approval of his application from La Corporation des Agronomes, if he intends to practise as a professional agriculturist in the Province of Quebec after graduating. Forms of Application for Permission to Study and full particulars may be obtained from La Corporation des Agronomes de la Province de Quebec, Room 410, 10 St. James St. W., Montreal, or from the Registrar, Macdonald College.

Failure to comply with the regulations of the Corporation may cause a delay of a year or more before the candidate may be legally authorized to practise his profession in the Province of Quebec. Application for permission to study must be made before August 1st, 1943.

Deposit with Application

A deposit of $5.00 should accompany each application for admission to the School of Household Science; this deposit, if the application is accepted, will be applied on account of payments due at entrance. In the event of the non-acceptance of such application, the deposit will be returned. Applicants failing to register will forfeit the amount deposited, unless the cause shown is considered adequate by the College authorities.

ATTENDANCE

Punctual attendance at all classes is expected of all students. Absence from classes can be excused only by necessity or illness, of which proof must be given to the Dean or Director of the school concerned. The College has the power to refuse examinations to those students who persist in absenting themselves from classes without permission.

I. COURSES IN AGRICULTURE

(a) Partial Courses

Partial courses may be taken as follows:—

1. In one or more courses of the B.Sc. (Agr.) curriculum by matriculated students who shall be designated partial students of the Degree Course.

2. In one or more courses of the Diploma Course curriculum by students who shall be designated partial students of the Diploma Course.

3. At the option of the Dean and the departments concerned, partial students of the Diploma Course may be permitted to follow certain courses of the Degree Course curriculum, though not for credit towards a degree. Such students shall pay the tuition fees applying to courses of the Degree Course curriculum.

The main purpose of the Partial Course is to enable students from other faculties or other universities to integrate their previous courses with those at Macdonald College. No student proceeding to a degree will be permitted to register for more than one session as a partial student. Applications in all cases must be approved by the Dean of the Faculty of Agriculture, and registration must be made in the regular way before students enter upon their work.

For regulations regarding fees applicable, see page 903.

(b) Diploma Course

This is a two year course of five months' duration in each year commencing about November 1st, and finishing about March 31st. It affords a special opportunity of spending one or two winter seasons in studying Agriculture, and the time is selected with a view to interfering as little as possible with farm operations. It is intensely practical in character and is designed with the following objects in mind;—To give the largest amount of information and training in practical agriculture in the shortest possible time; to equip the student for solving his future problems; to awaken him to the many opportunities on the farm; to give him an inspiration in his agricultural work; and to enable him to fill a more useful place in rural citizenship.

The work of the first year is taken by all students in common; in the second year a student may choose subjects that have to do either with dairy farming or fruit farming. A diploma will be granted to each student who completes the two years' work successfully.

Diploma Course Entrance

1 For General Requirements see page 912.

2. All candidates for admission to the Diploma Course must have passed their sixteenth birthday and will be required to read and write the English language acceptably, to be proficient in the use of arithmetic and to have had some farm experience.

Diploma Course Syllabus

(See page 946)

DESCRIPTION OF COURSES

AGRICULTURAL ENGINEERING

1. Farm Machinery.—A study of the gas engine as applied to stationary purposes, the automobile and the tractor. (b) Implements and Machinery. The use and adjustments of tillage and harvesting machinery.
1st Yr:—1 lect., 3 labs., per wk., 1st term. Mr. Cooper.

2. Farm Construction.—(a) Farmstead planning including the arrangement of the various buildings, the planning of houses and barns; fences and fencing. (b) Carpentry and concrete work.
1st Yr.:—1 lect., 2 labs., per wk., 2nd term. Professor Heimpel.

Text Book:—Stewart—Engineering on the Farm.

6. Land Drainage.—The soil water table and its control; surface drains and underdrainage. (b) Farm Sanitation. Water supplies and water systems, methods of sewage disposal.
2nd Yr.:—2 lect., 2 labs., per wk., 1st term. Professor Heimpel.

7. Farm Shopwork.—Blacksmithing, rope splicing, soldering and farm plumbing.
2nd Yr.:—1 lect., 2 labs., per wk., 2nd term. Mr. Cooper

Text Book:—Jones—Farm Shop Practice.

AGRICULTURE

1. A general course on Agriculture designed to give the student a proper conception of farming as an occupation and an appreciation of some important considerations in the selection and operation of farms.
1st Yr.:—1 lect., per wk., 2 terms. Professor Hamilton.

AGRONOMY

1. Soils and Soil Management.—Classes of soil, tillage, rotation, manuring, fertilizers, liming, drainage, etc., will be studied with a view to enabling the student to manage the soil on his own farm to best advantage.
1st Yr.:—3 lects., per wk., 1st term. Professor Lods.

3. Hay and Pasture Crops.—These crops will be studied from the standpoints of their importance, varieties, culture and management.
1st Yr.:—2 lects., 1 lab., per wk., 2nd term. Mr. Bird.

5. Corn and Root Crops.—As with Hay and Pasture Crops.
1st Yr.:—3 lects., per wk., 2nd term. Professor Raymond.

7. Crop Management.—Factors determining the crops to grow, cropping schemes for typical situations in Eastern Canada. Fertilizers and seed will be given further attention in this course.
2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Summerby.

9. Grain Crops.—As with Hay and Pasture Crops.
2nd Yr.:—2 lects., 1 lab., per wk., 1st term. Professor Lods.

ANIMAL HUSBANDRY

1. Farm Live Stock.—Commercial types and classes of farm stock their care and management; feeding; breeding; and judging.
1st Yr.:—3 lects., 2 labs., per wk., 1st term; 2 lects., 2 labs., per wk., 2nd term. Professors Ness and Hamilton.

6. Farm Live Stock.—A continuation of course 1, but dealing particularly with purebred stock.
2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Ness and Hamilton.

7. Live Stock Breeding.—In this course the more important basic principles underlying breeding practice are considered. Selection of breeding animals is studied in the light of what is known in regard to reproduction, transmission of characters, heredity, and environment.
2nd Yr.:—2 lects., per wk., 2nd term. Professor Crampton.

8. Live Stock Feeding.—This course is primarily a study of the common feeding stuffs used in the rations of farm live stock. Feeding practice is considered in relation to the principles of animal nutrition, and practice is given in the compounding of satisfactory rations.
2nd Yr.:—2 lects., per wk., 1st term. Professor Crampton.

ANIMAL NURSING

6. The course will cover situations usually encountered by farm managers and herdsmen.
2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Mr. Barker.

BACTERIOLOGY

1. Bacteriology.
1st Yr.:—1 lect., 1 lab., per wk., 2nd term. Dr. Thatcher.

BOTANY

1. Agricultural Botany.—The course consists of a study of the fundamentals of growth and reproduction processes in plants. The botany of economic plants will be studied as much as possible and consideration given to weeds and weed seeds and their control.
1st Yr.:—2 lects., 1 lab., per wk., 1st term.

CHEMISTRY

1. Elementary Chemistry, with applications to soils, fertilizers, feeding stuffs, and insecticides and fungicides.
1st Yr.:—2 lects., 1 lab., per wk., 1st term. Professor DeLong.

DAIRYING

6. Care of milk, separating, testing, buttermaking, and the marketing of dairy products.

Quebec Provincial examinations will be set in milk and cream testing and milk analysis. Students passing these examinations will receive a provincial Milk Tester's certificate.
2nd Yr.:—2 lects., 2 labs., per wk., 2nd term. Mr. Cunningham.

ECONOMICS

7. Principles of Marketing and Co-operation. — Marketing methods, agencies and services. Cycles in production and prices. Collective bargaining. Co-operation and the pooling of farm products.
2nd Yr.:—3 lects., 1 lab., per wk., 1st term. Professor Lattimer.

8. Farm Organization and Management.—Specialization in farming. Adaptability of types of farming to various localities. The size of farms. Land values and farm wages.
2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Lattimer.

ENGLISH

The students will be divided into a Senior and a Junior Group according to their attainments in English Speech and Literature:—

2.
1st Yr.:—3 lects, per wk., 2 terms. Mr. Avison.

7.
2nd Yr.:—1 lect., 1 lab., per wk., 2 terms. Mr. Avison.

ENTOMOLOGY

3. An elementary treatment of the structure, habits, classification and control of insects.
1st Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Brittain and Dr. Morrison.

HORTICULTURE

4. General Horticulture.—A course dealing with the principles of farm horticulture, including the home garden, the propagation of plants, seed sowing, the improvement of the home surroundings, the farm orchard and horticultural cash crops for the farmer, such as potatoes, canning crops and some small fruits.
1st Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Murray and Staff.

6. Vegetable Gardening.—The production of vegetables with reference to climate, soils, fertilizers, seeds, spraying, harvesting, grading, packing, storage, marketing and canning, with practical instruction in the greenhouse and laboratory throughout the course.
2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Murray.

7. Ornamental Gardening.—Foundation planting; choice and care of ornamental trees, shrubs, vines, and flowers for the home grounds, and the making and care of lawns. Some instruction will be given in commercial floriculture.
2nd Yr.:—2 lects., 1 lab., per wk., 1st term. Mr. Walker.

8. Fruit Growing.—A practical study of orchard and small fruit production, including propagation, soils, fertilizers, culture, and other related phases, including spraying, harvesting, marketing, and storage. One lecture per week during the second term will be used for complementary work on spray machinery, cold storage, by-products, etc.
2nd Yr.:—2 lects., 2 labs., per wk., 1st term.
3 lects., 2 labs., per wk., 2nd term. Mr. Nussey.

MATHEMATICS

1. A review of elementary arithmetic; decimals, percentage, ratio and proportion, mensuration and farm business accounting.
1st. Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Heimpel. (Agricultural Engineering Department).

6. A continuation of course 1 with particular attention to areas and volumes as applied to contents of tanks, bins, hay stacks, silos and barn lofts.
2nd Yr.:—2 lects., per wk., 1st term. Professor Heimpel. (Agricultural Engineering Department).

PHYSICS

6. An elementary course dealing with the fundamental principles of Physics and their application in agricultural practice.
2nd Yr.:—1 lect., 2 labs., per wk., 1st term. Dr. Oliver.

PLANT PATHOLOGY

6. Plant Diseases.—Studies of important plant diseases in horticultural crops, including losses, symptoms, cause and spread.
2nd Yr.:—(Fruit Farming Group):—2 lects., 1 lab., per wk., 2nd term.

POULTRY HUSBANDRY

1. PRODUCTIVE POULTRY HUSBANDRY.—The elements of poultry production and marketing applicable to general farm use. A study is made of the various breeds of chickens, ducks, geese, and turkeys and their general management through a complete production cycle.
1st Yr.:—2 lects., 1 lab., per wk., 2 terms. Mr. Nikolaiczuk.

6. ADVANCED POULTRY PROBLEMS.—The economic significance of the various factors influencing production returns on the basis of poultry management.
2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Maw.

7. POULTRY BREEDING AND MARKETING IMPROVEMENT.—A study of the basic factors in poultry breeding and product marketing in relation to the improvement policies of the industry. Elective.
2nd Yr.:—2 lects., 1 lab., per wk., 1st term. Professor Maw.

PROJECT

6. Second year students are required to submit a project in the form of an essay and a questionnaire to be handed in not later than March 15th.

The project work shall comprise the outlining of a farm enterprise together with the procedure to be followed in establishing and developing it. The farm may be owned or rented. Particulars must include a financial forecast, in detail, of yearly expenditures and returns for a period of five years as well as an estimate of the money required over and above what the farm may return.

Questionnaire forms having to do with finding farm facts will be distributed before the close of the first year. They must be filled in during the summer and submitted as a part of the project.

The project will rank as a subject with an allowance of 100 marks and will become the property of the College.
2nd Yr.:—The equivalent of 2 labs., per wk., 2 terms.

Supervising Committee:—Professor Hamilton (Chairman), Professors Lattimer, Heimpel and Lods.

DIPLOMA COURSE EXAMINATIONS

All students will be required to give satisfactory evidence of mastery of the material of lecture and laboratory. Examinations will be held at the end of the first term in all courses given and at the end of each course. The examiner will pass in to the Registrar the final mark giving the standing of each student in all the work of the course.

Students who obtain 75 per cent and over are placed in the first class; those who obtain 60 and less than 75 per cent, in the second class; and those who obtain 40 and less than 60 per cent, in the third class.

For purposes of evaluation, a full course shall be two lectures and two laboratory periods per week for one term or its equivalent and shall be rated at 100 marks. One lecture equals one laboratory period. More or less than full courses shall be rated proportionately. Students conditioned in papers of an aggregate value of 250 marks or less will be required to write supplemental examinations in those subjects. Students conditioned in papers having an aggregate value of more than 250 marks will be considered as having failed in the year's work.

Students who fail in the first year of the Diploma Course in Agriculture will not be permitted to repeat the year, except by special action of the Faculty of Agriculture.

A student who is allowed to repeat a year may, by special permission, be exempted from attending lectures and passing examinations in one or more subjects in which he has already passed creditably and be required to take one or more subjects of the following year in his course. The choice of subjects must involve no conflict of hours in the time table.

For absences from classes, see "Attendance", page 913.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. See page 913.

Regular Supplemental Examinations.—A regular supplemental examination is a first supplemental examination in a subject.

Regular supplemental examinations will be held immediately preceding the opening of lectures in January, on a date or dates to be fixed; and following the sessional examinations in the spring.

A first supplemental examination in a subject, not involving the preparation of a special paper, may also be arranged in conjuction with the regular sessional examinations.

Special Supplemental Examinations.—Supplemental examinations taken at other times than those appointed, and supplemental examinations taken subsequent to a first supplemental examination, will be considered as special supplementals and must be arranged with the Registrar.

Every candidate for either a regular or a special supplemental examination is required to fill out an application form for such examination and to return it with the necessary fee (for which see page 904) at least three weeks before the examination begins. Application forms may be obtained from the Registrar.

No student writing a supplemental examination in a subject shall be granted marks higher than the required pass mark—i.e., 40%.

(c) ADVANCED DIPLOMA COURSE

Students who obtain at least high second-class standing in each year of the Diploma Course, may continue for a further year. For admission to the third year the candidate's application and schedule of courses and any revision thereof must receive the approval of the Faculty.

The course is intended for those who do not desire a degree but are anxious to extend their educational equipment beyond the two year course and to train themselves for the responsibilities of rural leadership. It is designed to permit those of good ability and some maturity to pursue a course where more emphasis is placed upon private study and individual effort than is possible during the first two years, when lectures and class-room exercises consume the bulk of the student's time.

During the session, which, for the Advanced Diploma Course, will date from the opening of the Degree Course, the student's time will be divided between assigned studies, projects, and departmental work. His curriculum will include reading, preparing reports, writing essays, and course work.

The course is not rigidly prescribed and is intended to be of a broad and general character. Nevertheless, it provides opportunity for the student to pay special attention to those phases of agriculture in which he is particularly interested. The courses taken will be selected from those listed below, but the student may be permitted to attend others which may be of value to him. The courses will be selected in consultation with the Chairman of the Diploma Course Committee.

At the end of his course of study, the student will submit himself to examinations in the individual courses taken when required, and to a series of comprehensive examinations in practical and scientific agriculture, written and oral, set by a Board of Examiners appointed for the purpose.

An Advanced Diploma in Agriculture may be awarded at the completion of the year's work or may be withheld until the student has demonstrated the necessary capacity in the work undertaken.

Only a limited number of students will be accepted each year.

Courses may be chosen from the following list, supplemented, if desired, by others approved by the Faculty:—

Agricultural Engineering:—31, 32, 33, and 34.
Agronomy:—31, 32, 33, 36, and 41.
Animal Husbandry:—30, 34, 35, 41, 45 and 46.
Botany:—30.
Comparative Physiology and Pathology:—30, 31, and 32.

Economics:—*20, 30, 31, and 32.
English:—*14, *24, and 35.
Entomology:—34.
Horticulture:—31, 33, 38, 39, and 40.
Plant Pathology:—31.
Poultry Husbandry:—31, 33, 35, and 38.

(d) B.Sc. (Agr.) COURSE

This is a four-year course leading to the degree of Bachelor of Science in Agriculture; the degree when abbreviated shall be designated B.Sc. (Agr.).

The curriculum is organized with equal standards and similar plans to those of the other faculties of the University. During the first two years the work undertaken is common to all students and is limited to subjects which are basic in the study of all branches of agriculture. In the third and fourth years the student may specialize in a single branch of agriculture, or he may choose a combination of related subjects. In either case the outline of work must offer a comprehensive training in the major work and cognate subjects.

Entrance

1. For General Requirements see page 912.

2. All candidates for admission to the four year course leading to the B.Sc. (Agr.) degree shall produce one of the certificates indicated below. With the modifications noted, this will apply also to all candidates for admission to the B.H.S. course.

a. Of having passed the Junior Matriculation Examination for entrance to the Faculty of Agriculture, which is held in June at McGill University and at other centres, and in September at McGill University only. All enquiries relating to such examination should be addressed to the Registrar, McGill University, Montreal, Que.

Every candidate must make application on a form which may be obtained from the Registrar's office, McGill University, Montreal. This application, with the proper fee, must reach the Registrar's office before 20th May for the June examination and before 20th August for the September examination. After these dates application may be accepted for the Montreal centre only. A special late fee of $1.00 is charged for such applications. The fee is $1.00 per paper with a minimum fee of $2.00 and a maximum fee of $10.00.

For the convenience of candidates in Great Britain who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each June. Full information regarding dates, fees, etc., may be obtained from the Honorary Representative of the University, W. A. Bulkeley-Evans, C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C. 4.

*The courses marked with an asterisk are required and examinations must be taken in them.

Subjects of Junior Matriculation Examination:

Group	No. of Papers	
1.	2	English.
2.	1	History.
3.	2	Latin *or* French *or* German *or* Spanish (French preferred)
4.	2	Elementary Mathematics.
5.	1	Physics or Chemistry or Biology.
		EITHER
6.	2	Latin or French or German or Spanish (if not already chosen);
		OR
		Any two of the following papers not already chosen:—
		a. Intermediate Algebra;
		b. Intermediate Geometry and Trigonometry;
		c. *Botany;
		*Biology;
		d. Chemistry;
		e. Physics;
		f. †Drawing;
		g. Geography;
		h. Music. (B.Sc. (H.Ec.) candidates only. Music and Drawing may not both be chosen).
Total	10 papers.	

An examination in Zoology of other reputable universities or recognized public examining boards will be accepted as an alternative to Botany or Biology.

In order to pass, a candidate must obtain an average of 60 per cent in the ten required papers of the examination, and not less than 40 per cent in any paper. Details of the syllabi are given in the General Announcement, which may be obtained from the Registrar, McGill University, Montreal, Que.

Candidates for admission to the B.Sc. (Agr.) or B.Sc. (H.Ec.) Degree Course are expected to have complete matriculation, but may be permitted to enter as conditioned undergraduates provided they have not failed in papers of an aggregate of more than 200 marks.

Except by special action of the Faculty no student will be permitted to carry a matriculation condition into the second year.

b. The following certificates will be accepted in lieu of the Junior Matriculation examination for admission to the Faculty of Agriculture, provided that pass standing, according to the standards of the various examining bodies, is shown thereon in the subjects required in "a" above:

*Botany and Biology may not both be chosen.

†The High School Leaving Examination in Household Science will be accepted as an alternative to Music or Drawing for admission to the B.Sc. (H.Ec.) Course, provided the candidate secures an average of 67% in the nine other required papers.

Province of Quebec:—
The High School Leaving Certificate.
The Catholic High School Leaving Certificate.
Province of Ontario:—
Middle School Certificate.
Province of New Brunswick:—
Junior Matriculation.
Province of Nova Scotia:—
Grade XI Certificate.
Province of Prince Edward Island:—
Second Year Certificate of Prince of Wales College.
Province of British Columbia:—
Junior Matriculation.
Province of Manitoba:—
Grade XI Certificate.
Provinces of Alberta and Saskatchewan:—
Grade XI Certificate.
Newfoundland:—
Junior Matriculation.
United States:—
Certificates granted by the College Entrance Examination Board.

c. Great Britain:—
The School Certificate (with four or five credits) of:—
The Oxford and Cambridge Schools Examination Board.
The Oxford Local Examination Board.
The Cambridge Local Examination Board.
The Northern Universities Joint Examination Board.
The Central Welsh Board.
The University of Durham.
Bristol University.
The University of London.
The University of London Matriculation.
The Certificate of Fitness granted by the Scottish Universities Entrance Board.

d Miscellaneous:—
Other certificates, such as those issued by reputable universities or recognized public examining boards, will be judged on their merits and accepted in so far as they meet the entrance requirements.

Intending students who wish to enter by certificate should under no circumstances come to the College without having obtained from the Registrar a statement of the value of the certificates they hold.

Students with incomplete requirements may obtain standing in subjects included in the McGill Matriculation by writing McGill Examinations.

3. *Farm Experience.*—All candidates for the course leading to the B.Sc. (Agr.) degree should preferably have had at least five months' experience on an approved farm before admission. Students who cannot fulfil this requirement *must* submit satisfactory evidence of at least one season's experience on an approved farm before entering the second year of the course. NOTE:—College and experimental farms, while affording excellent opportunities in special lines of work, are not approved for purposes of general experience.

COURSE REQUIREMENTS

The requirements for graduation shall be:—

(a) Pass standing, in all courses outlined on page 947 for the first and second years, as stated on page 943.

(b) Pass standing in the third and fourth year courses equivalent to a minimum of 11 courses.

(c) Satisfactory distribution and concentration of courses:—See *Courses of Study* below.

(d) Satisfactory fulfilment of regulations concerning summer work for specialists.

EVALUATION OF COURSES

For the purposes of evaluation, a full course shall consist of three lectures per week throughout the year, and shall be rated at 150 marks A two-hour laboratory period equals one lecture period. More or less than full courses shall be rated proportionately. Where the unit of instruction is considered to be a single period per week per term, six units would constitute a full course.

COURSES OF STUDY

Before entering upon the third year, students shall prepare, in consultation with the professors under whom major subjects are to be taken, summaries of courses to be taken in the third and fourth years, which shall include the equivalent of not less than 11 nor more than 12½ full courses (*i.e.*, from 66 to 75 units). Term schedules must be approved by the Faculty.

To satisfy the requirements for concentration of courses the student shall select one or two subjects in which most of his work shall be done.* If a single subject is chosen it shall be selected from Group 1 below, and all the required courses, as indicated in the syllabus (page 66) must be taken. If two subjects are chosen they shall be selected either (a) both from Goup I or (b) one subject from Group I and one subject from Group II. In either case, not less than 3½ courses must be taken in each subject. The subjects shall be designated major subjects.

*Departments shall be at liberty to recommend their students to take courses in cognate departments as equivalent to courses in their own departments.

MAJOR SUBJECTS OFFERED

Group I	Group II
Agronomy	Agricultural Engineering
Animal Husbandry	Bacteriology
Chemistry	Botany
Entomology	Economics
Horticulture	Parasitology
Plant Pathology	
Poultry Husbandry	

In addition to the foregoing, courses are offered in General Agriculture and in General Biology, as follows:—

General Agriculture.—This provision is designed for students who do not care to follow one of the specialized courses offered but who wish to obtain a general training in agriculture together with the basic sciences. It offers the type of training asked for by those wishing to farm, to do extension work or enter the commercial field. It is arranged to meet the requirements of students who wish to give special attention to combinations of subjects which are not provided for otherwise. Though planned as a general course, it provides the possibility of pursuing graduate studies.

The courses that may be selected are listed in the syllabus, pages 948 to 952, under the column headed Gen. Agr.; the numbers 1 and 2 therein relate to the groups referred to below.

For the third and fourth years, all the courses in Group I shall be taken, except that either Animal Physiology or Plant Physiology will be accepted. Four full courses shall be taken from Group 2; of these, one full course must be chosen from each of three departments. The balance of the courses taken to make up the required number may be selected from any course listed in the announcement, provided it is approved by the committee in charge and by the Faculty.

The total number of courses taken in the third and fourth years must not be less than 11 and not more than 12½.

General Biology.—This provision is designed for students who do not desire to take one of the more rigid professional courses during their undergraduate years, but rather to select courses which will serve as a foundation to later specialization in one of the fields of Applied Biology as it relates to agriculture.

The courses that may be selected are listed in the syllabus, pages 948 to 952, under the column headed Gen. Biol.; the numbers 1 and 2 therein relate to the groups referred to below.

For the third and fourth years, all courses in Group I shall be taken, except that either Animal Physiology or Plant Physiology will be accepted and that either Zoological Technique or Botanical Technique may be taken. Four full courses shall be taken from Group 2. The balance of the courses taken to make up the required number may be selected from any course listed in the announcement, provided it is approved by the committee in charge and the Faculty.

The total number of courses taken in the third and fourth years must not be less than 11 and not more than 12½.

Summer Work Requirements

Students majoring in Agronomy will be required to spend one summer in the Agronomy Department at the College, or at some other approved college or experimental farm. This may be between the second and third, or third and fourth years. Arrangements will be made during this time to put the student in touch with each of the phases of the department's work.

Students majoring in Animal Husbandry will be required to work for a summer on a farm approved by the Animal Husbandry Department.

Students majoring in Horticulture will be required to work for a summer on a vegetable farm, fruit farm, a nursery or in a greenhouse.

Students majoring in Entomology or Plant Pathology will be required to spend one summer in field or laboratory work, either at the College immediately under the direction of the department concerned, in one of the Government laboratories, or in some other place approved by the department concerned.

Students majoring in Poultry Husbandry will be required to work for a summer on a poultry farm approved by the Poultry Husbandry Department.

Summer Work for B.Sc. (Agr.) Students

A certain number of students who have completed at least one session in the B.Sc. (Agr.) course, may be employed during the spring and summer months to assist in the work of the various departments of the College. Such students will be paid according to the character and quantity of their work and, whilst in residence, will have to conform to the usual regulations. No other students may remain in residence without special permission from the Dean.

Syllabus of Courses

(See page 947)

DESCRIPTION OF COURSES

DEPARTMENT OF AGRICULTURAL ENGINEERING

Associate Professor:—L. G. Heimpel

Lecturer:—J H. Cooper

30. Surveying and Drainage.—Methods of land surveying applicable to agriculture, including chaining, levelling, computation of areas, making of maps and profiles. Farm drainage.

3rd+4th Yrs.:—2 lects., 1 lab., per wk., 1st term, and 5 days of field work prior to the opening date of session. Given in 1943-44. Professor Heimpel. Text Book:—Ayres and Scoates—Land Drainage and Reclamation.

31. Farm Buildings.—Planning and construction of farm buildings suitable to eastern Canadian conditions; requirements of various buildings, structural materials, ventilation and sanitation. Prerequisite:—Agricultural Engineering 35A.

3rd+4th Yrs.:—1 lect., 2 labs., per wk., 2nd term. Given in 1944-45. Professor Heimpel. Text Book:—Foster and Carter—Farm Buildings.

32. Spraying and Dusting Equipment.—A laboratory study of high pressure pumps, dusting machines, spray guns and other equipment. *3rd + 4th Yrs.:—2 labs., per wk., 2nd term. Given in 1943-44. Mr. Cooper.*

33. Farm Machinery.—A study of tillage, harvesting and threshing machinery. Field tests, dynamometer studies, hitches and eveners. *3rd or 4th Yrs.:—1 lect., 2 labs., per wk., 1st term. Text Book:*—Smith—Farm Machinery and Equipment.

34. Farm Power Machinery.—A study of internal combustion engines, tractors, and types of electric motors, and their application to farm work; also transmission.

3rd + 4th Yrs.:—1 lect., 2 labs., per wk., 2nd term. Given in 1944-45. Mr. Cooper. Text Book:—Jones—Farm Gas Engines and Tractors.

35. Agricultural Drafting.

A. The use of drawing instruments, projection, elementary architectural drawing.

3rd Yr.:—3 labs., per wk., 1st term. Professor Heimpel.

B. Perspective, architectural and machine drawing.

3rd Yr.:—3 labs., per wk., 2nd term. Mr. Cooper.

36. Projects.

4th Yr.:—Either term. Credit—one-half course. Professor Heimpel.

AGRICULTURE

Offered jointly by the departments of Agricultural Engineering, Agronomy, Animal Husbandry, Horticulture and Poultry Husbandry. Students must pass in each term's work in these courses.

10. AGRICULTURE.—An orientation course giving the student an opportunity to obtain a general view of agriculture, and some idea of the nature and problems of the various branches to each other and to the sciences.

1st Yr.:—2 lects., 1 lab., per wk., 2 terms. 1st term, Animal Husbandry; 2nd term, Agronomy. Professors Ness, Summerby, and staffs.

20. AGRICULTURE.—In continuation of Course 10.

2nd Yr.:—2 lects., 1 lab., per wk., 2 terms. 1st term, Horticulture; 2nd term, Poultry Husbandry and Agricultural Engineering. Professor Murray, Maw, Heimpel, and staffs.

DEPARTMENT OF AGRONOMY

Professor:—Robert Summerby
Associate Professor:—L. C. Raymond
Assistant Professor:—E. A. Lods.
Lecturer:—J. Norman Bird

31. CEREAL CROPS.—An intensive study of cereal crops; production, marketing, uses, types, varieties, strains, commercial and seed grades.

3rd Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor Lods.

32. HAY AND PASTURE CROPS.—Similar to Cereal Crops.

4th Yr.:—2 lects., 1 lab., per wk., 1st term. Mr. Bird.

33. ROOTS, CORN AND OTHER SILAGE CROPS.—Similar to Cereal Crops.

3rd + 4th Yrs.:—2 lects., 1 lab., per wk., 2nd term. Given in 1943-44. Professor Raymond.

34. EXPERIMENTATION.—A study of factors involved, statistical methods, designs of experiments and interpretation of results.

3rd or 4th Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Summerby.

35. PLANT BREEDING.—Problems, methods and the interpretation of results, in the breeding of field crops. Prerequisite:—Genetics 30, and Botany 33 or one Crops Course.

4th Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Raymond.

36. CROP ADAPTATION AND DISTRIBUTION.—Factors influencing crop adaptation and their effect on distribution. Agronomic organizations

3rd Yr.:—2 lects., 1 lab., per wk., 1st term. Mr. Bird.

38. Soil Management.—An analysis of factors influencing soil productivity and their control. Prerequisite:—Chemistry 33 and Physics 36.

4th Yr.:—2 lects., per wk., 2nd term. Mr. Bird.

42. Projects.

4th Yr.:—2 labs., per wk., either term. Professor Summerby and Staff.

43. Field Crop Production.—Designed for students other than specialists in Agronomy. A. Soil and crop relations, cropping plans, weed control, seed, and other considerations applying to all crops. B. A study of field crops. (Prerequisite 43 A).

Agron. 31, 32, or 33 may be substituted for Agron. 43 B.

3rd or 4th Yr.:—2 lects., 1 lab., per wk., 2 terms. Professor Summerby and staff.

DEPARTMENT OF ANIMAL HUSBANDRY

Professor:—A. R. Ness
Professor:—Earle W. Crampton
Assistant Professor:—Lionel H. Hamilton
Lecturer:—C. A. V. Barker
Instructor:—H. W. Cunningham

30. Swine Production.—Care, feed, and management of swine. Special problems of bacon hog production. Swine experimentation and interpretation of results.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1944-45. Professor Hamilton.

34. Dairy Cattle Production.—The production of dairy cattle, with special reference to the problems of the dairy cattle industry; care and management of dairy cattle; dairy cattle organizations and dairy cattle experimentation.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 1st term. Given in 1943-44. Professor Ness.

35. Live Stock Judging.—Principles and practice in judging farm livestock. Market and breed types. Show-ring judging. This course includes visits to various farms, breeding establishments, and live stock shows.

3rd + 4th Yrs.:—3 labs, per wk., 1st term. Given in 1944-45. Professors Ness and Hamilton.

36. Breed History and Pedigree Study.—The history and development of several of breedslive stock.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1944-45. Professors Ness, Crampton and Hamilton.

38. Animal Breeding.—Genetics in relation to breeding. Prerequisite:—Genetics 30.

3rd + 4th Yrs.:—2 lects., 1 lab., per wk., 2nd term. Given in 1944-45. Professor Crampton.

41. Horses, Sheep and Beef Cattle.—A course covering the important features of the production of these classes of stock in Canada.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1943-44. Professor Hamilton.

42. Projects.

3rd or 4th Yr.:—Either term. Credit—one-half course. Professor Ness and Staff.

45. Fundamentals of Nutrition:

Part I.—The composition of the animal body and its food; properties and physiological roles of the several nutrients essential for the nutritional well-being of the animal; methods of quantitative determination of nutritive values of foods.

Part II.—Determination of the nutritional requirements of the body for maintenance, growth, production and reproduction: physiology of lactation.

Laboratory projects include: measurement of O_2 consumption and calculation of caloric requirements; digestion trials; vitamin assay; comparative feeding trials and analysis of data; selected chemical procedures.

Four laboratory periods are taken in the Department of Chemistry under Dr. McFarlane.

4th Yr.:—Part I, 2 lects., per wk., 1st term.
Part II, 1 lect., 2 labs., per wk., 2nd term. Professor Crampton.

Note: Students to whom the course is elective may register for Part I only.

46. Livestock Feedingstuffs.—A study of the chemical and physical properties of common livestock feeds and their nutritive values as used in rations. The use of feeding standards.

4th Yr.:—1 lect., per wk., 2nd term. Professor Crampton.

DEPARTMENT OF BACTERIOLOGY

Associate Professor:—P. H. H. Gray

Lecturer:—F. S. Thatcher

30. General Microbiology.—This course is a prerequisite to the courses listed below.

3rd or 4th Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor Gray.

32. Soil Microbiology.

4th Yr.:—2 lects., 2 labs., per wk., 1st. term. Professor Gray.

33. Laboratory Methods.

4th Yr.:—1 lect., 3 labs., per wk., 1st term. Professor Gray.

34. Food Microbiology.

3rd or 4th Yr.:—1 lect., 2 labs., per wk., 2nd term. Dr. Thatcher.

35. Dairy Bacteriology.

4th Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor Gray.

36. Projects.

4th Yr.:—3 labs., per wk., 2 terms. Staff.

37. Seminar.

4th Yr.:—1 hour per wk., 2 terms. Staff.

38. Physiology of Micro-organisms.

3rd or 4th Yr.:—1 lect., 3 labs., per wk., 2nd term. Dr. Thatcher.

Students majoring in Bacteriology with one other subject are required to take all of the above courses.

BOTANY

10. Introductory Botany.—A study of the flowering plant as a living organism with fundamentals of structure, physiology and reproduction, and an introduction to the general morphology of plants involving consideration of representative types of the several groups of the plant kingdom.

1st Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Coulson. (Department of Plant Pathology).

30. Plant Physiology.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1943-44. Professor Scarth (Faculty of Arts and Science).

31. Histology and Cytology.—A detailed study of cells, cell division, tissues and their development, etc.

3rd Yr.:—2 lects., 1 lab., per wk., 2nd term.

32. Plant Morphology.

3rd Yr.:—1 lect., 2 labs., per wk., 1st term.

33. Systematic Botany.

3rd + 4th Yrs.:—3 labs., per wk., 2nd term. Given in 1944-45.

34. Histological Technique.—The preparation for the microscope of permanent stained mounts of at least twelve separate items. See Plant Pathology 30.

3rd Yr.:—1 lect., 1 lab., per wk., 1st term.

DEPARTMENT OF CHEMISTRY

Professor:—W. D. McFarlane
Assistant Professors: {W. A. DeLong, G. H. Benham}
Demonstrators: {E. P. Knight, J. A. Nelson}

10. INORGANIC CHEMISTRY.

1st Yr.:—3 lects., 2 labs., per wk., 2 terms. Professor Benham.

20. ORGANIC CHEMISTRY.

2nd Yr.:—2 lects., per wk., 1st term.
3 lects., 2 labs., per wk., 2nd term. Professor Benham.

Text book:—Lowry and Harrow, Introduction to Organic Chemistry (Wiley).

21. ANALYTICAL CHEMISTRY.

2nd Yr.:—1 lect., 2 labs., per wk., 1st term. Professor Benham.

30. ANALYTICAL CHEMISTRY.—A. Theoretical. (Chemistry 3 A and 3 B in the Faculty of Arts and Science).

3rd Yr.:—2 lects., per wk., 2 terms. Professor Mennie.

B. Practical. 1st term, Qualitative; 2nd term, Quantitative Analysis.

3rd Yr.:—4 labs., per wk., 2 terms. Professor DeLong.

Text book:—Curtman—Qualitative Chemical Analysis (Macmillan).

31. ORGANIC CHEMISTRY.—Preparations.

3rd Yr.:—2 labs., per wk., 2nd term. Professor DeLong.

Text book:—Robertson—Laboratory Practice of Organic Chemistry (Macmillan).

32. GENERAL BIOCHEMISTRY.—Chemistry of the carbohydrates, lipides, amino-acids and proteins. Physico-chemical properties of proteins.

3rd or 4th Yr.:—2 lects., 2 labs., per wk., 1st term. Professor McFarlane.

Text books:—Bodansky—Introduction to Physiological Chemistry (Wiley); Dutcher and Haley—Agricultural Biochemistry (Wiley).

33. SOILS:—SOIL CHEMISTRY.—Joint course with Physics 36. Prerequisite:—Chemistry 42. The chemical composition and properties of the profiles of the important soil types of Eastern Canada; podzolization; the colloidal complex of the soil; base exchange; composition and properties of soil organic matter; phosphorus compounds in soils, phosphorus fixation; relation of chemical analysis to soil survey work; soil and plant analysis as a guide to the nutrient requirements of soils; rapid soil tests.

4th Yr.:—2 lects., 1½ labs., per wk., 1st term. Professor DeLong.

Text book:—Robinson—Soils—their Origin, Constitution and Classification (Murby).

39. Physical Chemistry.—(Chemistry 4 and part of 7L (Eng. 51) in the Faculty of Arts and Science). Taken in Montreal, Tuesday and Thursday only.

3rd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Winkler.

40. Assigned Projects.

4th Yr.:—3 labs., per wk., 2 terms. Professor McFarlane and Staff.

41. Seminar.

4th Yr.:—1 lect., per wk., 2 terms. Professor McFarlane and Staff.

42. Geology:—Soil Genesis and Genetics.—The main geological periods of time; the more important rock-forming minerals; diastrophism, vulcanism, metamorphism; age and types of rocks occurring as extensive superficial formations in Eastern Canada; glaciation, glacial and post-glacial deposits. Phosphate and potash deposits.

Weathering; soil formation; genesis of the great soil groups; soil morphology; soil classification.

3rd Yr.:—2 lects., per wk., 2nd term. Professor DeLong.

45. Dairy Chemistry.—The composition and analysis of milk and its products.

4th Yr.:—2 lects., 2 labs., per wk., 1st term. Professor McFarlane.

46. Food Chemistry.—The composition and analysis of foods other than dairy products. Prerequisite Chemistry 45.

4th Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor McFarlane.

47. Physiological Chemistry.—Prerequisites:—Chemistry 32 and Physics 33. Classification and properties of enzymes; digestion; composition and properties of blood and bile, gaseous exchange and acid base equilibrium, metabolism of nutrients and tissue respiration, urine.

Laboratory work parallels the lecture course and includes blood and urine analysis.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Professor McFarlane.

Text Books:—Bodansky—Introduction to Physiological Chemistry (Wiley); Hawk and Bergeim—Practical Physiological Chemistry (Blakiston).

48. Plant Biochemistry.—Prerequisites:—Chemistry 32 and Physics 33. Inorganic constituents of plants; chemical processes in which they are concerned. Organic constituents of plants; a study of representatives of the principal groups. Discussion of chemical phenomena occurring in plants such as hydrolysis, synthesis, condensation, oxido-reduction and respiration.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1944-45. Professor DeLong.

Text books:—Onslow—Principles of Plant Biochemistry (Cambridge Univ. Press); Dutcher and Haley—Agricultural Biochemistry (Wiley).

50. TEXTILE CHEMISTRY.—See page 960.

Chemistry 30A and 39 are taken in Montreal on Tuesdays and Thursdays. These courses are required for students majoring in Chemistry only.

COMPARATIVE PHYSIOLOGY AND PATHOLOGY

30. ELEMENTARY PHYSIOLOGY.

3rd Yr.:—3 lects., per wk., 2nd term. Mr. Barker (Department of Animal Husbandry).

31. DISEASE PREVENTION.—Sanitation and hygiene in the prevention of diseases and parasites infesting domestic animals. Prerequisite:—Course 30.

4th Yr.:—3 lects., per wk., 1st term. Mr. Barker.

32. POULTRY DISEASES.—Autopsies, laboratory work and demonstrations. Prerequisite courses:—Zoology 31, Bacteriology 30.

3rd + 4th Yrs.:—2 labs., per wk., 2nd term. Given in 1944-45. Mr. Barker.

33.—MICROBIAL DISEASES OF ANIMALS AND THOSE TRANSMISSIBLE TO MAN.—Prerequisite:—Bacteriology 30.

4th Yr.:—2 lects. 1 lab., per wk., 2nd term. Mr. Barker.

DAIRYING

30. The Dairy Industry; its importance in Canadian agriculture, the relative importance of the various products, and an analysis of the trade. The farm dairy and its equipment. The composition, quality, value, care, and sale of milk and cream. Quality and defects in butter, cheese and other dairy products. Instruction in testing, separating, butter-making and cheesemaking.

3rd Yr.:—2 lects., 2 labs., per wk., 2nd term. Mr. Cunningham (Department of Animal Husbandry).

DEPARTMENT OF ECONOMICS

Professor:—J. E. Lattimer

20. ELEMENTARY PRINCIPLES.

2nd Yr.:—3 lects., per wk., 2nd term.

30. PRINCIPLES OF MARKETING AND CO-OPERATION.—The problem of marketing. Services, agencies and methods. Possibilities of co-operation.

3rd + 4th Yrs.:—3 lects., per wk., 2nd term. Given in 1944-45.

31. ECONOMICS OF AGRICULTURE.—Problems of the industry including trade, tariffs, transportation, planned production, land tenure, farm credit and taxation.

3rd + 4th Yrs.:—3 lects., per wk., 2nd term. Given in 1943-44.

32. Farm Organization and Management.—Types of farming, size of business. Administration and efficiency. Records and accounts.

3rd + 4th Yrs.:—3 lects., per wk., 1st term. Given in 1944-45.

33. Principles of Economic Theory.—A continuation of course 20 (prerequisite). Historical development of economic theory. Source and character of contribution. Recent refinements. Public regulation of business.

3rd + 4th Yrs.:—3 lects., per wk., 1st term. Given in 1943-44.

34. Projects.

3rd or 4th Yrs.:—Minimum of 2 labs., per wk., 1 term (either).

See note concerning graduate work on page 945.

DEPARTMENT OF ENGLISH

Assistant Professor:—J. M. Paton

Lecturer:—H. R. C. Avison

14. English Composition.—Instruction and practice in the elements of good speech and good writing; 1 lecture period per week, conference hours and written themes to the equivalent of 1 lab. period per week—2 terms. A student failing in the year's work will be required to repeat this course until the necessary standard has been attained.

1st Yr.:—1 lect., 1 lab., per wk., 2 terms. Mr. Avison.

15. English Literature.—General course from Anglo-Saxon times to about 1750, conducted by lecture and seminar.

1st Yr.:—2 lects., per wk., 2 terms. Mr. Avison.

24. English Literature.—A continuation and extension of course 15 down to the present century; conducted by lecture and seminar.

2nd Yr.:—2 lects., per wk., 1st term, 1 lect., per wk., 2nd term. Professor Paton.

40. Public Speaking and Journalism.—A course for students who wish to learn how to speak with ease in public and how to write acceptable articles for the periodicals and scientific journals. It is intended that this course should run parallel with that in Extension Methods 30, but it may also be taken by students who have displayed the necessary aptitude for it.

3rd + 4th Yrs.:—1 lect., per wk., 2 terms. Mr. Avison and Professor Paton.

41. The Literature of Utopia.—A reading and discussion course in modern world problems, approached from the point of view of past experience as reflected in our literature. A list of topics and readings from Plato to the present day will be provided at the opening of the course, which will be conducted by lecture and seminar.

3rd + 4th Yrs.:—2 lects., per wk., 2 terms, Professor Paton and Mr. Avison.

EXTENSION METHODS

30. Extension Methods.—Study group technique; extension methods in agriculture, household science; rural sociology.

Laboratory work will comprise participation in debates, conduct of public meetings, and similar activities, and the operation of the Rural Problems Club, which will meet weekly from November 1st to March 31st. Membership in the Club will be open to all students in Agriculture, Household Science and the School for Teachers. Students who elect this course will also be required to take English 40.

3rd or 4th Yr.:—1 lect., 1 lab., per wk., 2 terms. Mr. Avison and Committee.

DEPARTMENT OF ENTOMOLOGY

Professor:—W. H. Brittain
Associate Professor:—E. Melville DuPorte
Lecturers:—W. E. Whitehead, F. O. Morrison.

30. Insect Morphology.

3rd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor DuPorte.

32. Entomological Technique.—Prerequisite:—Zoology 32.

3rd Yr.:—1 lect., 2 labs., per wk., 2nd term. Mr. Whitehead.

33. Economic Entomology.—The principles and practice of Applied Entomology from a professional standpoint, including a survey of the Class *Hexapoda* with special reference to biological and economic aspects. A representative collection of economic insects including at least 50 adults, 20 larvae and five complete life history sets will be required of all students taking this course.

4th Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Brittain and Dr. Morrison.

34. General and Economic Entomology.—A more elementary course similar to the foregoing, but suited to the general student. A collection of 25 adult insects, 10 larvæ and one complete life history set, representative of common economic insects, will be required of each student taking the course.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 1st term. Given in 1943-44. Alternates with Plant Pathology 31. Professor Brittain and Dr. Morrison.

35. Systematic Entomology.—The classification of the principal groups of insects. *Each student will be asked to choose a special group for more detailed study and to bring to the class an original collection in that group.* Prerequisite:—Entomology 30.

4th Yr.:—2 lects., 2 labs., per wk., 2 terms. Mr. Whitehead.

36. Insect Ecology.—The influence of the environment on the development, activities, distribution and abundance of insects.

3rd + 4th Yrs.:—2 lects., per wk., 1st term. Given in 1943-44. Professor DuPorte.

37. Seminar.—Presentation and discussion of reports on:—(1) Assigned topics; (2) Recent work in Entomology and Zoology; (3) Original investigation.

3rd Yr., 4th Yr. (both):—1 lab., per wk., 2 terms. Professors Brittain and DuPorte.

38. Projects.—One or more problems entailing private investigation will be allotted to each student at the beginning of his third year. The work done should be equivalent to

3rd or 4th Yr.:—2 labs., per wk., 2 terms. Staff.

39. Economic Entomology.—A laboratory course supplemental to Course 33, open only to students who are majoring in Entomology and have received the permission of the department.

4th Yr.:—1 lab., per wk., 2 terms. Professor Brittain.

GENETICS

30. Elementary Genetics.—The modern conception of inheritance. Laboratory work with corn and with the fruit-fly, *Drosophila melanogaster*.

3rd or 4th Yr.:—3 lects., 2 labs., per wk., 1st term. Professor Raymond (Agronomy Department).

31. Advanced Cytogenetics.—Prerequisite, Course 30. Given in alternate years at Macdonald College and in the Department of Genetics, McGill University. (Faculty of Arts and Science, Genetics Course 3). At Macdonald College 1943-44.

4th Yr.:—3 lects., per wk., 2 terms (Wednesday afternoons 2-5). Professor Huskins (Faculty of Arts and Science), Professors Summerby, Crampton, Raymond, Lods, Murray.

DEPARTMENT OF HORTICULTURE

Associate Professor:—H. R. Murray

Lecturer:—A. N. Nussey

Instructor:—A. H. Walker

31. Vegetable Crops.—The principles of vegetable growing, including economic importance, geography, types and varieties, cultural requirements, harvesting, grading, marketing and storage as applied to the important crop plants.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 2 terms, and 4 days prior to the opening date of the College session for the examination of material in the fields. Given in 1943-44. Professor Murray.

32. Landscape Architecture.—History and development of landscape gardening. Description, characteristics, and identification of ornamental plants, propagation, nursery practices, and care of plant material; landscape plans, sketches, designs, drafting and specifications, as applied to rural and urban homes, estates, parks, playgrounds, etc.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1943-44. Mr. Walker.

35. Floriculture.—History, development, varieties, propagation and culture of flowers, with consideration of harvesting, grading, packing, storage and marketing. Decoration, floral designs, arrangement of baskets, bouquets and designs, table and house decoration. Trips to greenhouse establishments.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1944-45. Mr. Walker.

36. Plant Breeding.—A study of the principles of genetics as applied to the breeding and improvement of horticultural crop plants. The development of breeding methods for different types of plants will be given special consideration. Lectures will be supplemented by practice periods in the greenhouse. Prerequisite:—Genetics 30 and permission to register.

4th Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor Murray.

37. Seminar.—Presentation and discussion of reports on assigned topics, recent work and developments in horticulture and reports on the original investigations of the students and staff.

4th Yr.:—1 period per wk., 2 terms. Professor Murray and Staff.

38. Pomology (Orchard Fruits).—The fundamentals of orchard fruit propagation, production and marketing, with visits to orchards, markets, and cold storage establishments.

3rd + 4th Yr.:—1 lect., 1 lab., per wk., 2 terms and 4 days prior to the opening date of the College session for the examination of material in the orchards. Given in 1944-45. Mr. Nussey.

39. Pomology (Small Fruits).—The fundamentals of small fruit propagation, production and marketing, with visits to producing areas and marketing establishments.

3rd + 4th Yr.:—1 lect., 1 lab., per wk., 2 terms and 4 days prior to the opening date of the College session for field examination of material. Given in 1944-45. Mr. Nussey.

40. Horticultural Crops.—A course dealing with the more important branches of horticulture, designed for students other than horticulture specialists.

a. A study of tree and bush fruits with attention to improving the home surroundings.

b. A study of potatoes as a cash crop, canning and other special crops and the farm garden.

Under special conditions either A or B may be taken by permission.

3rd or 4th Yrs.:—2 lects., 1 lab., per wk., 2 terms. Professor Murray and staff.

41. PROJECTS.

4th Yr.:—2 labs,, per wk., either term.

MATHEMATICS

10. ELEMENTARY MATHEMATICAL ANALYSIS.—An introduction to functions and their graphical representation; solution of equations; logarithms; trigonometry; binomial theorem; compound interest; permutations, combinations and probability.

1st Yr.:—3 lects., per wk., 2 terms. Mr. Irvine.

20. CALCULUS.—Analytical geometry, differential and integral calculus.

2nd Yr.:—3 lects., per wk., 2 terms. Professor Rowles (Department of Physics).

PARASITOLOGY

34. SEMINAR.

3rd and 4th Yrs.:—1 lab., per wk., 2 terms. Professors DuPorte and Cameron.

Students will attend the combined Entomology-Parasitology Seminar.

35. PROJECTS.—A problem may be selected in Protozoology, Medical Entomology or Helminthology. The object of the problem is to enable the student:—(1) To do more intensive work in some selected field; (2) To obtain an introduction to the methods of scientific research.

4th Yr.:—3 labs., per wk., 2nd term. Professors Cameron and DuPorte.

36. PROTOZOOLOGY.—A morphological, biological and systematic study of protozoa with special reference to the parasites of domestic animals. Protozoological technique.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 1st term. Given in 1944-45. Professor DuPorte (Department of Entomology).

37. MEDICAL ENTOMOLOGY.—A systematic and biological study of insects concerned in the causation of disease in man and domestic animals. Prerequisite:—Entomology 30.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk, 2nd term. Given in 1944-45. Professor DuPorte (Department of Entomology).

38. HELMINTHOLOGY.—A morphological, biological and systematic study of the helminths with special reference to the parasites of domestic animals. Helminthological technique.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1943-44. Professor Cameron (Institute of Parasitology).

DEPARTMENT OF PHYSICS

Associate Professor:—W. Rowles

Lecturer:—W. F. Oliver

12. General Physics.—An elementary course dealing with the subject chiefly from the experimental side, with selected problems based on the fundamental principles. The course is designed to familiarize the students with the more important laws of physics and to furnish the necessary basis for later work.

1st Yr.:—3 lects., 1 lab., per wk., 2 terms. Professor Rowles.

22. General Physics.—A continuation course which covers the same ground as Physics 12, but with more intensive treatment. Certain topics will receive special emphasis and additional phases of the subject will be considered.

2nd Yr.:—3 lects., 1 lab., per wk., 2 terms. Dr. Oliver.

32. Meteorology.—A study of the factors which condition climate and weather, etc.

3rd + 4th Yrs.:—1 lect., per wk., 2nd term. Given in 1944-45. Professor Rowles.

33. Biophysics.—(Prerequisite to Chemistry 47 and 48). A study of the gas laws; osmosis; surface phenomena; electrolytic dissociation; pH; colloidal state; X-rays in biology, etc.

3rd Yr.:—2 lects., 2 labs., per wk., 1st term. Professor Rowles.

36. Soils—Soil Physics.—A joint course with Chemistry 33. Soil texture as determined by mechanical analysis; soil moisture and its movement; soil constants and their measurement; physical properties of colloids and their effects on soil behaviour; dynamometer studies in relation to physical properties of soil, etc.

4th Yr.:—1 lect., per wk., 1 lab., per fortnight, 1st term. Professor Rowles.

37. Molecular and Atomic Physics.—This course includes a brief discussion of differential equations; Maxwell's distribution law; the laws of thermodynamics; atomic structure; the charge on the electron; isotopes; series in spectra; circular orbit theory for hydrogen; X-rays and crystal structure; radioactivity; introduction to nuclear physics, etc.

4th Yr.:—3 lects., per wk., 2 terms. Dr. Oliver.

DEPARTMENT OF PLANT PATHOLOGY

Associate Professor:—John G. Coulson

Lecturer:—

Demonstrator:—R. A. Ludwig

30. Technique.—The preparation and standardization of media. Inoculation methods, etc., Photomicrography and the optical equipment necessary.

Students taking the Plant Pathology Option will be required to take that part of course Zoology 32 dealing with illustrations. Graduate students may take this work without credit.

3rd Yr.:—1 lect., 1 lab., per wk., 2nd term.

31. Diseases of Plants.—A study of the common diseases and their control. Use of spray calendars. Preparation of fungicides, etc.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 1st term. Given in 1944-45. Alternates with Entomology 34.

32. Plant Pathology.—Detailed studies of plant diseases; distribution, economic importance, symptoms, cause and control.

Myxomycetous, phycomycetous, ascomycetous and non-parasitic diseases.

3rd Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor Coulson.

33. Mycology.—A study of fungi as concerning taxonomy, morphology, sexuality, etc.

4th Yr.:—2 lects., 2 labs., per wk., 2 terms.

34. Projects.—One or more problems entailing private investigation will be allotted each student.

4th Yr.:—Minimum of 2 labs., per wk., 2 terms. Professor Coulson and Staff.

35. Seminar.—A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc., in the field of General Botany, Physiology, Cytology, Histology, Morphology, Ecology, Taxonomy, Genetics, Mycology, Pathology. Attention will be more especially directed to such articles as have application in Plant Pathology or Mycology.

4th Yr.,—1 period per wk., 2 terms. Professor Coulson and Staff.

36. Plant Pathology.—Detailed studies of plant diseases; distribution, economic importance, symptoms, cause and control.

Basidiomycetous, fungi imperfecti, bacterial and virus diseases.

4th Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Coulson.

Note:—12 laboratory periods on bacterial diseases of plants are to be taken in the Department of Bacteriology.

DEPARTMENT OF POULTRY HUSBANDRY

Associate Professor:—W. A. Maw

Lecturer:—N. Nikolaiczuk

31. History of Breeds and Judging.—The origin, domestication and development of the various breeds of chickens, turkeys, ducks and geese. Advanced practice in judging on the basis of type and colour standards.

3rd + 4th Yrs.:—1 lect., 2 labs., per wk., 1st term. Given in 1943-44. Professor Maw.

33. General Poultry Husbandry.—The general principles and practice of poultry production and marketing. Elective for poultry specialists.

3rd Yr.:—2 lects., 1 lab., per wk., 1st term. Mr. Nikolaiczuk.

34. Breeding Principles.—The fundamental principles underlying poultry breeding. Prerequisites:—Genetics 30; Poultry Husbandry 31 and 33.

3rd + 4th Yrs.:—2 lects., 1 lab., per wk., 2nd term. Given in 1943-44. Professor Maw.

35. Poultry Farm Management.—Poultry farming as a business; size of business, economic aspects of capital and labour involved; farm layout and buildings; arrangement; equipment, inventories, cost accounts and other records. Prerequisite:—Poultry Husbandry 33.

4th Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Maw.

36. Research.—A study of method in conducting experiments and analysis of data. Prerequisite:—Poultry Husbandry 33.

4th Yr.:—1 lect., 2 labs., per wk., 2 terms. Professor Maw and Mr. Nikolaiczuk.

37. Assigned Projects.

3rd Yr.:—2 labs., per wk., 2nd term.
4th Yr.:—3 labs., per wk., 2 terms. Professor Maw and Mr. Nikolaiczuk.

38. Poultry Nutrition.—Prerequisite:—Poultry Husbandry 33.

3rd + 4th Yrs.:—2 lects., 1 lab., per wk., 2nd term. Given in 1943-44. Mr. Nikolaiczuk.

SOCIOLOGY

40. Modern Communities.—A study of typical modern communities in rural and urban areas; the relations of rural and urban communities as indicated by the spread of urbanization; present-day trends in the social and economic organization of rural and urban communities; present-day community problems. Elective.

3rd or 4th Yr.:—3 lects., per wk., 1st term. Given in 1943-44. Hours to be arranged. Professor Dawson (Faculty of Arts and Science).

41. The Modern Family.—The social and economic backgrounds of the modern family; the varied marriage systems in different parts of the world; modern trends in family standards of living; forces making for social change and readjustment of the family in North America; factors making for future family stability. Elective.

3rd or 4th Yr.:—3 lects., per wk., 1st term. Given in 1944-45. Hours to be arranged. Professor Dawson.

ZOOLOGY

20. Elementary Zoology.—An introduction to animal structure, physiology and classification. Representatives of the chief phyla are studied and used to introduce some of the general principles of Zoology.

2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor DuPorte, Mr. Whitehead and Dr. Morrison (Department of Entomology).

31. Comparative Vertebrate Anatomy.

3rd + 4th Yrs.:—2 lects., 2 labs., per wk., 2 terms. Given in 1943-44. Professor Du Porte and Mr. Whitehead (Department of Entomology).

32. Histological Technique.—The preparation of histological slides and the technique of making scientific drawings.

Students taking the Entomology Option will be required to take that part of the course Plant Pathology 30 which deals with photography and the use of the microscope. Graduate students may take this work without credit.

3rd Yr.:—1 lect., 2 labs., per wk., 1st term. Mr. Whitehead (Department of Entomology).

B.Sc. (AGR.) AND B.Sc. (H.Ec.) COURSES
EXAMINATIONS

All students will be required to give satisfactory evidence of mastery of the material of lecture and laboratory. First and second year examinations will be held at the end of the first term in all courses. In all years examinations will be held at the conclusion of each course, at which time the examiner will pass in to the Registrar a mark giving the final standing of each student in all the work of the course.

First year students who obtain an average of less than 40 per cent in the first term examinations will not be permitted to continue with the work of the second term.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. See page 913.

Students who are allowed to repeat a year do so on probation. Students whose work or conduct during the year proves unsatisfactory may also be placed on probation involving loss of certain privileges. The type of probation will vary with individual cases.

Pass Mark and Classes

The pass mark in all examinations is 50 per cent.

In the first and second years, 80 per cent and over is first class standing; 65 to 79 per cent, second class; 50 to 64 per cent, third class or pass.

Advancement from Year to Year

In the first and second years, any student who fails in courses of the year's work to an aggregate value of more than 450 marks will be required to repeat the year. Any student who fails in courses of the year's work to an aggregate value of 450 marks or less may write supplemental examinations in all failed courses the following September. However, a student who fails in English 14 (Composition) will be required to repeat the course until the necessary standard has been attained.

No student may enter the second year carrying a condition in more than one subject of first year work, and no student may enter the third year carrying a condition in more than one subject of second year work.

No student may enter the third year with any subject outstanding from his first year, and no student may enter the fourth year with any subject outstanding from his second year.

Any student who, after the final spring examinations of the third year, has failed to obtain an average of at least 50 per cent, based on all the courses of his third year, will be required to repeat the year. No student will be admitted to the fourth year of the B.Sc. (Agr.) course who has not passed in third year work equivalent to at least five full courses (30 units), or to the fourth year of the B.Sc. (H.Ec.) course who has not passed in third year courses having an aggregate value of at least 750 marks.

A student who is allowed to repeat a year may be exempted from attending lectures and passing examinations in one or more subjects in which he has already passed and obtained at least 60 per cent, and may be required to take one or more subjects of the following year in his course. The choice of subjects must involve no conflict of hours in the timetable.

If a student fails in a course which he has taken with a more advanced class he shall be required to repeat the course when he enters the class in which that subject is regularly taught.

Pass and Honour Standing

Honour Standing:—Students who have obtained an average of at least 60 per cent in the work of the first two years, and who obtain an average of 80 per cent or over, based on all the courses of their third and fourth years, and not less than 50 per cent in any course, shall be granted First Class Honours; those who obtain an average of from 65 to 79 per cent, based on all the courses of their third and fourth years, and not less than 50 per cent in any course, shall be granted Second Class Honours. Students who have obtained an average of less than 60 per cent in the work of the first two years are not eligible for Honours.

Pass Standing:—Students who obtain an average of not less than 50 per cent, based on all the courses of their third and fourth years, and not less than 50 per cent in any course, shall be granted Pass Standing.

SUPPLEMENTAL EXAMINATIONS

REGULAR SUPPLEMENTAL EXAMINATIONS.—A regular supplemental examination is a first supplemental examination in a subject.

Regular supplemental examinations will be held before the opening of lectures in September and in January.

A first supplemental examination in a subject, not involving the preparation of a special paper, may also be arranged in conjunction with the regular sessional examinations.

SPECIAL SUPPLEMENTAL EXAMINATIONS.—Supplemental examinations taken at other times than those appointed, and supplemental examinations taken subsequent to a first supplemental examination, will be considered as special supplements and must be arranged with the Registrar.

Every candidate for either a regular or a special supplemental examination is required to fill out an application form for such examination and to return it with the necessary fee (for which see page 904) at least three weeks before the date set for the examination. Application forms may be obtained from the Registrar.

No student writing a supplemental examination in a subject will be granted marks higher than the pass mark, 50 per cent.

(e) GRADUATE COURSES

Graduate work, under the Faculty of Graduate Studies and Research, McGill University, Montreal, may be taken at Macdonald College, in Agronomy, Bacteriology, Chemistry, Entomology, Horticulture, Nutrition, (Animal, Poultry, Human), Parasitology, and Plant Pathology. The advanced courses of study offered lead to the degrees of Master of Science and Doctor of Philosophy.

Graduates who have completed three full courses or their equivalent in the Department of Economics at Macdonald College and who, in addition, have completed at least two full courses in the Department of Economics and Political Science or their equivalent with at least second class honours, may register in the Faculty of Graduate Studies and Research to proceed toward the degree of Master of Arts.

A number of scholarships and student assistantships are available.

The Faculty of Graduate Studies and Research issues an announcement giving full information regarding graduate courses, and scholarships, theses, registration, etc. in connection therewith, which will be sent on application to the Registrar, to the Dean of the Faculty of Graduate Studies and Reserach, McGill University, Montreal, or to the Dean of the Faculty of Agriculture, Macdonald College, Que.

SYLLABUS

Diploma Course

SUBJECTS	Course Numbers	First Term per week		Second Term per week	
		Lects.	Labs.	Lects.	Labs.
FIRST YEAR					
Agricultural Engineering:—					
Farm Machinery	1	1	3	.....	.....
Farm Construction	2	.....	.....	1	2
Agriculture	1	1	.....	1	.....
Agronomy:—					
Soils and Soil Management	1	3	.....	.....	.....
Hay and Pasture Crops	3	.....	.....	2	1
Corn and Root Crops	5	.....	.....	3	.....
Animal Husbandry:—					
Farm Live Stock	1	3	2	2	2
Bacteriology	1	.....	.....	1	1
Botany	1	2	1	.....	.....
Chemistry	1	2	1	.....	.....
English	2	3	.....	3	.....
Entomology	3	.....	.....	2	1
Horticulture:—					
General Horticulture	4	1	1	1	1
Mathematics	1	1	1	1	1
Poultry Husbandry:—					
Productve Poultry Husbandry	1	2	1	2	1
SECOND YEAR Dairy Farming Group					
Agricultural Engineering:—					
Land Drainage and Farm Sanitation	6	2	2	.....	.....
Farm Shopwork	7	.....	.....	1	2
Agronomy:—					
Crop Management	7	.....	.....	2	1
Grain Crops	9	2	1	.....	.....
Animal Husbandry:—					
Farm Live Stock	6	2	2	2	2
Live Stock Breeding	7	.....	.....	2	.....
Live Stock Feeding	8	2	.....	.....	.....
Animal Nursing	6	.....	.....	2	1
Dairying	6	.....	.....	2	2
Economics:—					
Principles of Marketing	7	3	1	.....	.....
Farm Organization and Management	8	.....	.....	2	1
English	7	1	1	1	1
Mathematics	6	2	.....	.....	.....
Physics	6	1	2	.....	.....
Poultry Husbandry:—					
Poultry Problems, Advanced	6	.....	.....	2	1
*General Poultry Husbandry	7	2	1	.....	.....
Project	6	2	.....	2	.....
SECOND YEAR Fruit Farming Group					
Agricultural Engineering:—					
Land Drainage and Farm Sanitation	6	2	2	.....	.....
Farm Shopwork	7	.....	.....	1	2
Agronomy:—					
Crop Management	7	.....	.....	2	1
Economics:—					
Principles of Marketing	7	3	1	.....	.....
Farm Organization and Management	8	.....	.....	2	1
English	7	1	1	1	1
Horticulture:—					
Vegetable Gardening	6	2	2	2	2
Ornamental Gardening	7	2	1	.....	.....
Fruit Growing	8	2	2	3	2
Mathematics	6	2	.....	.....	.....
Physics	6	1	2	.....	.....
Plant Pathology:—					
Plant Diseases	6	.....	.....	2	1
Poultry Husbandry:—					
Poultry Problems, Advanced	6	.....	.....	2	1
*General Poultry Husbandry	7	2	1	.....	.....
Project	6	2	.....	2	.....

*An elective course which may be substituted for one of the above courses, with the approval of Diploma Course Committee.

SYLLABUS

B.Sc. (Agr.) and B.Sc. (H.Ec.) Courses

First and Second Years

SUBJECTS	Course Numbers	First Term per week		Second Term per week	
		Lects.	Labs.	Lects.	Labs.
FIRST YEAR					
Agriculture:—					
*Agriculture	10	2	1	2	1
Botany:—					
**Botany, Introductory	10	2	2	2	2
Chemistry:—					
Chemistry, Inorganic	10	3	2	3	2
English:—					
Composition	14	1	1	1	1
Literature	15	2	.....	2	.....
Household Science:—					
+Household Science, Introduction to	10	3	.....	.....	.....
Mathematics:—					
Mathematical Analysis, Elementary	10	3	.....	3	.....
Physics:—					
General Physics	12	3	1	3	1
Physical Education:—					
+Physical Education	10	Minimum 2 hours weekly.			
Textiles:—					
+Laundering	10	.....	.....	2	1
SECOND YEAR					
Agriculture:—					
*Agriculture	20	2	1	2	1
Art:—					
+Interior Decoration and Art Appreciation	20	2	.....	2	.....
+Costume	21	2 lect., per wk., either term.			
Chemistry:—					
Organic Chemistry	20	2	.....	3	2
Analytical Chemistry	21	1	2	.....	.....
Economics:—					
*Elementary Principles	20	.....	.....	3	.....
English:—					
Literature	24	2	.....	1	.....
Foods and Cookery:—					
+Cookery	25	2	2	2	2
+Foods, Theory of	24	1	.....	1	.....
Household Science:—					
+Household Administration	20	.....	.....	2	1
Mathematics:—					
*Calculus	20	3	.....	3	.....
Physics:—					
*General Physics	22	3	1	3	1
Zoology:—					
Zoology, Elementary	20	2	2	2	2

*B.Sc. (Agr.) only.

+B.Sc. (H.Ec.) only.

**B.Sc. (H.Ec.) in lieu of Botany 10, first year French or German will be accepted from students from other Universities.

SYLLABUS
B.Sc. (Agr.) Course
Third and Fourth Years

SUBJECTS	Course Nos.	Unit Value	Periods per week		Term Given	Session offered (if alternating); or Year.	Curricula for Students Majoring in								
			Lects.	Labs.			Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Agricultural Engineering:—															
Surveying and Drainage	30	3	2	1	First	1943-44								2	
Farm Buildings	31	3	1	2	Second	1944-45								2	
Spraying and Dusting Equipment	32	2		2	Second	1943-44									
Farm Machinery	33	3	1	2	First	3rd or 4th								2	
Farm Power Machinery	34	3	1	2	Second	1944-45								2	
Agricultural Drafting	35	6		3	Both	3rd									
Projects	36	3		3	Either	4th									
Agronomy:—															
Cereal Crops	31	4	2	2	Second	3rd	x							2	
Hay and Pasture Crops	32	3	2	1	First	4th	x							2	
Roots, Corn and other Silage Crops	33	3	2	1	Second	1943-44	x							2	
Experimentation	34	4	1	1	Both	3rd or 4th	x				x				2
Plant Breeding	35	3	2	1	Second	4th	x								2
Crop adaptation and distribution	36	3	2	1	First	3rd	x								2
Soil Management	38	2	2		Second	4th	x							2	
Projects	42	2		2	Either	4th									
Field Crop Production	43	6	2	1	Both	3rd or 4th								2	
Animal Husbandry:—															
Swine Production	30	4	2	2	Second	1944-45		x						2	
Dairy Cattle Production	34	4	2	2	First	1943-44		x						2	
Live Stock Judging	35	3		3	First	1944-45		x							
Breed History and Pedigree Study	36	4	2	2	Second	1944-45									
Animal Breeding	38	3	2	1	Second	1944-45		x							2
Horses, Sheep and Beef Cattle	41	4	2	2	Second	1943-44		x						2	
Projects	42	3		3	Either	3rd or 4th		x							
Fundamentals of Nurtition	45	5	2		First	4th		x							2
			2	1	Second										
Livestock Feeding Stuffs	46	1	1		Second	4th		x							

SYLLABUS

B.Sc. (Agr.) Course

Third and Fourth Years (*Continued*)

SUBJECT	Course No.	Unit Value	Periods per week		Term Given	Session offered (if alternating); or Year.	Curricula for Students Majoring in								
			Lects.	Labs.			Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Bacteriology:—															
General Microbiology	30	4	2	2	Second	3rd or 4th	x	x	x‡	.....	.....	x	x	1	1
Soil Microbiology	32	4	2	2	First	4th	.....	.....	.....	.....	.....	.....	.....	.....	2
Laboratory Methods in Diagnosis	33	4	1	3	First	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Food Microbiology	34	3	1	2	Second	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dairy Bacteriology	35	4	2	2	Second	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Projects	36	6	.....	3	Both	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seminar	37	2	1	.....	Both	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Physiology of Microorganisms	38	4	1	3	Second	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	2
Botany:—															
Plant Physiology	30	4	2	2	Second	1943-44	x	.....	x‡	.....	x	x	.....	1	1
Histology and Cytology	31	3	2	1	Second	3rd	x	.....	.....	.....	.....	x	.....	.....	2
Plant Morphology	32	3	1	2	First	3rd	.....	.....	.....	.....	.....	x	.....	.....	.....
Systematic Botany	33	3	.....	3	Second	1944-45	.....	.....	.....	.....	x	x	.....	2	
Histological Technique	34	2	1	1	First	3rd	.....	.....	.....	.....	.....	x	.....	.....	1
Chemistry:—															
Analytical Chemistry	30	12	2	4	Both	3rd	.....	.....	x	.....	.....	.....	.....	.....	.....
Organic Chemistry—Preparations	31	2	.....	2	Second	3rd	.....	.....	x	.....	.....	.....	.....	.....	.....
General Biochemistry	32	4	2	2	First	3rd or 4th	x	x	x	x	x	x	x	1	1
Soils—Soil Chemistry	33	3½	2	1½	First	4th	x	.....	x‡	.....	x	.....	.....	1	2
Physical Chemistry	39	8	2	2	Both	3rd	.....	.....	x	.....	.....	.....	.....	.....	.....
Projects	40	6	.....	3	Both	4th	.....	.....	x‡	.....	.....	.....	.....	.....	.....
Seminar	41	2	1	.....	Both	4th	.....	.....	x	.....	.....	.....	.....	.....	.....
Geology:—Soil Genesis and Genetics	42	2	2	.....	Second	3rd	x	.....	x‡	.....	x	.....	.....	1	2
Dairy Chemistry	45	4	2	2	First	4th	.....	.....	x	.....	.....	.....	.....	.....	.....
Food Chemistry	46	4	2	2	Second	4th	.....	.....	x	.....	.....	.....	.....	.....	.....
Physiological Chemistry	47	4	2	2	Second	3rd + 4th	.....	x	x‡	.....	.....	.....	.....	.....	2
Plant Biochemistry	48	4	2	2	Second	1944-45	.....	.....	x‡	.....	.....	.....	.....	.....	2

SYLLABUS

B.Sc. (Agr.) Course

Third and Fourth Years (*Continued*)

SUBJECTS	Course No.	Unit Value	Periods per week		Term Given	Session offered (if alternating); or Year.	Curricula for Students Majoring in								
			Lects.	Labs.			Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Comparative Physiology and Pathology:—															
Elementary Physiology	30	3	3	.....	Second	3rd	.....	x	x‡	.....	.....	.....	x	1	1
Disease Prevention	31	3	3	.....	First	4th	.....	x	.....	.....	.....	.....	.....	.....	.....
Poultry Diseases	32	2	.....	2	Second	1944-45	.....	.....	.....	.....	.....	.....	x	.....	.....
Microbial Diseases of Animals	33	3	2	1	Second	4th	.....	x	.....	.....	.....	.....	.....	.....	.....
Dairying	30	4	2	2	Second	3rd	.....	.....	.....	.....	.....	.....	.....	.....	.....
Economics:—															
Principles of Marketing and Co-operation	30	3	3	.....	Second	1944-45	.....	.....	.....	.....	.....	.....	x	2	.....
Economics of Agriculture	31	3	3	.....	Second	1943-44	x	x	.....	.....	.....	.....	x	2	.....
Farm Organization and Management	32	3	3	.....	First	1944-45	.....	.....	.....	.....	.....	.....	.....	2	.....
Principles of Economic Theory	33	3	3	.....	First	1943-44	.....	.....	.....	.....	.....	.....	.....	2	.....
Projects	34	2	.....	2	Either	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
English:—															
Public Speaking and Journalism	40	2	1	.....	Both	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	1	.....
The Literature of Utopia	41	4	2	.....	Both	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Extension Methods	30	4	1	1	Both	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	1	.....

SYLLABUS

B.Sc. (Agr.) Course

Third and Fourth Years (*Continued*)

SUBJECTS	Course No.	Unit Value	Periods per week		Term Given	Session offered (if alternating); or Year.	Curricula for Students Majoring in								
			Lects.	Labs.			Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Entomology:—															
Insect Morphology	30	8	2	2	Both	3rd				x					2
Entomological Technique	32	3	1	2	Second	3rd				x					2
Economic Entomology	33	8	2	2	Both	4th				x					
General and Economic Entomology	34	4	2	2	First	1943-44					x	x			
Systematic Entomology	35	8	2	2	Both	4th				x					2
Insect Ecology	36	2	2		First	1943-44				x					2
Seminar (Third Year)	37	2		1	Both	3rd				x					
Seminar (Fourth Year)	37	2		1	Both	4th				x					
Projects	38	4		2	Both	3rd or 4th				x					
Economic Entomology	39	2		1	Both	4th									
Genetics:—															
Elementary Genetics	30	5	3	2	First	3rd or 4th	x	x			x	x	x	1	1
Advanced Cytogenetics	31	6	3		Both	1943-44									
Horticulture:—															
Vegetable Crops	31	8	2	2	Both	1943-44					x*				
Landscape Architecture	32	4	2	2	Second	1943-44					x*				
Floriculture	35	4	2	2	Second	1944-45					x*				
Plant Breeding	36	4	2	2	Second	4th					x				2
Seminar	37	2		1	Both	4th					x				
Pomology (Orchard Fruits)	38	4	1	1	Both	1944-45					x*			2	
Pomology (Small Fruits)	39	4	1	1	Both	1944-45					x*				
Horticultural Crops	40	6	2	1	Both	3rd or 4th								2	
Projects	41	2		2	Either	4th					x				
Parasitology:—															
Seminar	34	2		1	Both	3rd + 4th									
Projects	35	3		3	Second	4th									
Protozoology	36	4	2	2	First	1944-45									
Medical Entomology	37	4	2	2	Second	1944-45									
Helminthology	38	4	2	2	Second	1943-44									

SYLLABUS

B.Sc. (Agr.) Course

Third and Fourth Years (*Continued*)

SUBJECTS	Course No.	Unit Value	Periods per week		Term Given	Session offered (if alternating); or Year.	Curricula for Students Majoring in								
			Lects.	Labs.			Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Physics:—															
Meteorology	32	1	1	.....	Second	1944-45	.....	.....	.....	.....	.....	.....	.....	.....	2
Biophysics	33	4	2	2	First	3rd	x	x	x	x	x	x	x	1	1
Soils:—Soil Physics	36	1½	1	½	First	4th	x	.....	x‡	.....	x	.....	.....	1	2
Molecular and Atomic Physics	37	6	3	.....	Both	4th	.....	.....	x	.....	.....	.....	.....	.....	2
Plant Pathology:—															
Technique	30	2	1	1	Second	3rd	.....	.....	.....	.....	.....	x	.....	.....	2
Diseases of Plants	31	4	2	2	First	1944-45	.....	.....	.....	x	x	.....	.....	.....	.....
Plant Pathology	32	4	2	2	Second	3rd	.....	.....	.....	.....	.....	x	.....	.....	.....
Mycology	33	8	2	2	Both	4th	.....	.....	.....	.....	.....	x	.....	.....	2
Projects	34	4	.....	2	Both	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seminar	35	2	.....	1	Both	4th	.....	.....	.....	.....	.....	x	.....	.....	.....
Plant Pathology	36	8	2	2	Both	4th	.....	.....	.....	.....	.....	x	.....	.....	.....
Poultry Husbandry:—															
History of Breeds and Judging	31	3	1	2	First	1943-44	.....	.....	.....	.....	.....	.....	x	.....	.....
General Poultry Husbandry	33	3	2	1	First	3rd	.....	.....	.....	.....	.....	.....	x‡	2	.....
Breeding Principles	34	3	2	1	Second	1943-44	.....	.....	.....	.....	.....	.....	x	.....	2
Poultry Farm Management	35	4	1	1	Both	4th	.....	.....	.....	.....	.....	.....	x	2	.....
Research	36	6	1	2	Both	4th	.....	.....	.....	.....	.....	.....	x	.....	.....
Projects (Third Year)	37	2	.....	2	Second	3rd	.....	.....	.....	.....	.....	.....	x	.....	.....
Projects (Fourth Year)	37	6	.....	3	Both	4th	.....	.....	.....	.....	.....	.....	x	.....	.....
Poultry Nutrition	38	3	2	1	Second	1943-44	.....	.....	.....	.....	.....	.....	x	.....	.....
Sociology:—															
Modern Communities	40	3	3	.....	First	1943–44	.....	.....	.....	.....	.....	.....	.....	.....	.....
The Modern Family	41	3	3	.....	First	1944–45	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zoology:—															
Comparative Vertebrate Anatomy	31	8	2	2	Both	1943-44	.....	.....	.....	x	.....	.....	x	.....	2
Histological Technique	32	3	1	2	First	3rd	.....	.....	.....	x	.....	.....	.....	.....	1

(x) Numbers in columns headed Gen. Agr. and Gen. Biol. refer to the Groups to which the courses belong; for requirements see statement regarding General Agriculture and General Biology Courses, p. 925.

* At least two of the following:—Course 31; Courses 32 and 35; Courses 38 and 39.

‡ Elective course for students specializing in this subject.

SUBJECTS	Course No.	Periods per week		Term Given	Year	Curricula for Students taking	
		Lects.	Labs.			Dietetics	Education
Bacteriology:—							
General Microbiology	30	2	2	First	3rd	x	x
Food Microbiology	34	1	2	Second	3rd	x	x
Chemistry:—							
General Biochemistry	32	2	2	First	3rd	x	x
Physiological Chemistry	47	2	2	Second	3rd	x	x
Textile Chemistry	50	..	1	Second	4th	*	x
Clothing:—							
Construction of Clothing	30	2	1	Either	3rd	x	x
Construction of Clothing	40	1	2	Both	4th	..	x
Economics:—							
Elementary Principles	20	3	..	Second	3rd	x	x
Education:—							
Educational Psychology	30	3	..	First	3rd	x	x
Methods of Teaching	40a	3	..	First	4th	*	x
Practice Teaching	40b	..	3	Second	4th	..	x
Demonstration Practice	41	3	1	Second	4th	x	x
Extension Methods	30*	1	1	Both	3rd or 4th	*	*
Foods and Cookery:—							
Theory of Foods	30	1	..	Both	3rd	x	x
Advanced Cookery	31	1	1	Both	3rd	x	x
Household Administration:—							
Home Management	31	3 weeks	..	Either	3rd or 4th	x	x
Institution Administration:—							
Institution Administration	40	2	..	Both	4th	x	x
Nutrition and Dietetics:—							
Dietetics	40	2	1	First-	4th	x	x
Diet Therapy	41	4	2	Second	4th	x	*
Nutrition Seminar	44	2	..	First	4th	x	x
Fundamentals of Nutrition	45	2	..	First	4th	x	x
		1	2	Second			
Physics:—							
Biophysics	33	2	2	First	3rd	x	x
Physiology:—							
Elementary Physiology	30	3	..	Second	3rd	x	x
Sociology:—							
Modern Communities	40*	3	..	First	1943-44	*	*
The Modern Family	41*	3	..	First	1944-45	*	*
Textiles:—							
Textile Fibres and Fabrics	42	1	..	Both	4th	x	x
Elective	..	3	..	Either	4th	x	..

*Elective.

SYLLABUS

Household Science

Homemaker Course

SUBJECTS	Course Numbers	First Term per week		Second Term per week	
		Lects.	Labs.	Lects.	Labs.
Bacteriology:—					
Bacteriology, Elementary	5	2	2	.....	.....
Chemistry:—					
Chemistry, Household, Elementary	5	2	.....	.....	.....
English:—					
Composition and Literature	5	1	.....	1	.....
Foods and Cookery	5	4	4	(either	term)
Home Nursing	5	.....	.....	1½ (8-10	weeks)
Horticulture:—					
Home Gardening	5	.....	.....	1½ (8-10	weeks)
Household Accounts	5	.....	.....	2 (8-10	weeks)
Household Administration:—					
Household Administration	5	4	.....	2	.....
Household Administration	6	1	1	(either	term)
Home Management	7	Experien	ce arrang	ed, either	term
Interior Decoration and Art Appreciation	5	2	.....	2	.....
Laundering	5	2	2	(either	term)
Nutrition	5	1	.....	1	.....
Physical Education	5	2 hrs. per wk., 2 ter		ms.	
Physics, General	5	.....	.....	1	1
Physiology:—					
Anatomy and Physiology	5	2	.....	.....	.....
Textiles and Clothing:—					
Selection and Construction of Clothing	5	4	4	(either	term)

Discontinued Until After the War

II. COURSES IN HOUSEHOLD SCIENCE

(f) PARTIAL COURSES

Partial students may be accepted at the beginning of the session in the B.Sc. (H.Ec.) course, at the discretion of the Director and provided there is accommodation for them. For fees applicable, see page 904.

(g) HOMEMAKER COURSE

The object of this course is to train girls to deal intelligently with problems relating to the management of a home. The courses are, therefore, planned to give the student training in the different branches of household work, supplemented by a study of the sciences and arts which are related to the home. In planning the course full consideration is given to modern economic development and its relation to the woman in the home.

This course is divided into two terms of one-half a college year each, so that students may enter in September or at the beginning of the second half year in January.

Entrance Requirements

1. For general requirements see page 912.

2. All candidates for admission to the Homemaker Course must have entered their eighteenth year and have completed Grade VII of the Province of Quebec, or its equivalent.

Syllabus (see page 954)

Discontinued Until After the War

DESCRIPTION OF COURSES

BACTERIOLOGY

5. Elementary Bacteriology.
2 lect., 2 labs., per wk., 1st term.

CHEMISTRY

5. Elementary Household Chemistry.—An introductory course in which the elements of the Science are taught with continual reference to their application in the household
2 lects., per wk., 1st term.

ENGLISH

5. Composition and Literature.

1 lect., per wk., 2 terms.

FOODS AND COOKERY

5. This includes a study of kitchen equipment and fuels, also a study of food materials—their composition, cost and market conditions, as a basis for selection. Principles of food preparation are stressed and practice given in methods of cookery, applicable to the home.

4 lects., 4 labs., per wk., 1 term.

HOME NURSING

5. The Sick Room.—Location, ventilation, furnishing, temperature, care of room; making of beds; bed baths; care of patient; care of young baby; prevention and care of bed sores; emergencies—first aid—and simple bandaging.

1 lect., per wk., 2nd term.

Discontinued Until After the War

HORTICULTURE

5. Home Gardening.—This course includes a study of vegetable gardening, fruit culture, the lawn, the management of plants used in the beautification of grounds and the care of decorative plants in the home.

1½ hrs. per wk., 8 to 10 wks., 2nd term.

HOUSEHOLD ACCOUNTS

5. This course deals with the problems of household financing and includes the study of standards of living, budgeting, simple methods of household accounting, savings and investments. Practice is given in keeping personal accounts during the course.

2 lects., per wk., 8-10 weeks, 2nd term.

HOUSEHOLD ADMINISTRATION

5. This course is presented in a number of units pertaining to problems in family relationships and processes in the home. (a) the family, home and homemaker; (b) child psychology; (c) selection of house furnishings; (d) kitchen planning and equipment; (e) meal planning and table service.

4 lects., per wk., 1st term; 2 lects., per wk., 2nd term.

6. Care of Household Equipment and Furnishings.

1 lect., 1 lab., per wk., 1 term.

7. Home Management.—See 31—Home Management (page 962).

INTERIOR DECORATION

5. A study of homes and interiors including colour, furniture, textures and arrangements. Appreciation of Art in various fields and the compiling of illustrated notes to be bound in book form at the end of the year.
2 lects., per wk., 2 terms.

LAUNDERING

5. This course includes a study of laundry soaps, water softeners, bleachers, stain removers; a study of textiles from the laundering standpoint; methods and practice in cleaning and laundering clothing and household fabrics.
2 lects., 2 labs., per wk., 1 term.

NUTRITION

5. This course deals with the nutritive properties of common food materials, and the essentials of an adequate diet. The application of such knowledge to the feeding of family groups, as well as of individuals of different ages and various occupations, is discussed.
1 lect., per wk., 2 terms.

PHYSICAL EDUCATION

5. PHYSICAL EDUCATION.
2 hrs. per wk., 2 terms.

PHYSICS

5. GENERAL PHYSICS.—An elementary course.
1 lect., 1 lab., per wk., 2nd term.

PHYSIOLOGY

5. ANATOMY AND PHYSIOLOGY.—A lecture course in which the structure and function of the various systems of the human body are discussed. Emphasis is placed on the laws of hygiene and the importance of bodily health.
2 lects., per wk., 1st term.

TEXTILES AND CLOTHING

5. SELECTION AND CONSTRUCTION OF CLOTHING.—Standards for buying fabrics and ready made clothing are studied from the standpoint of use, quality, appropriateness and becomingness. Construction of garments includes the making of a tailored cotton undergarment, a wash frock, a silk undergarment and a silk or wool frock. Remodelling and making of seasonable hats when practicable.

Approximate cost of course.....$10.00
4 lects., 4 labs., per wk., 1 term.

Discontinued Until After the War

Homemaker Examinations

A certificate is granted to a student who successsfully completes the course of study in the Homemaker Course.

For pass standing a minimum of 50% of the marks in each subject and 60% of the aggregate marks for the course is required.

Homemaker students conditioned in more than two subjects will be considered as having failed in the examination and may be required to repeat the work of the term in which they have failed before proceeding with the work of the next term.

Students conditioned in not more than two subjects may remove the condition by passing a supplemental examination in the particular subject or subjects. See page 94.

Time lost through absence from classes must be made up after class hours, unless an official report of illness is received.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. *See page 913.*

(h) B.Sc. (H.Ec.) COURSE

This is a four-year professional course leading to the degree of Bachelor of Science in Home Economics.

The final year of the course has been arranged to give more specific training in two fields; in that of a dietitian and in that of a teacher of Household Science. Students enrolling for this year must decide before registering for which of these fields they desire to prepare.

A model Home Management House (Stewart House) is located on the College campus. In this house, under home conditions, the students learn the arts of home management.

A model dining department fitted with up-to-date equipment has been opened at "Glenaladale," a college staff residence. All B.Sc. (H.Ec.) students have an opportunity for practice work in this department during their final year.

While it is desirable for continuity of work that the whole four years be taken at Macdonald College, the subjects included in the first year are those of a general nature and may, therefore, be taken in the Faculty of Arts and Science at McGill (B.Sc. in Arts), or at any other university giving similar work.

Specialist Certificates for teaching Household Science subjects may be granted by the Protestant Central Board of Examiners of the Province of Quebec to candidates taking the teaching option who have been awarded the B.Sc. (H.Ec.) degree. These certificates are valid only in the Protestant schools of the Province of Quebec. Only those students who may legally teach in Protestant schools should attempt to qualify for this certificate. Those desiring to apply for the certificate will be required to teach a minimum of twelve lessons.

ENTRANCE REQUIREMENTS

1. The general requirements, page 912.

2. Academic requirements, page 921, under "Entrance B.Sc. (Agr.) Course," with modifications indicated.

SYLLABUS OF COURSES
(See pages 947, 953)

EVALUATION OF COURSES
(See page 924)

DESCRIPTION OF COURSES

ART

20. INTERIOR DECORATION AND ART APPRECIATION.—A study of domestic architecture, period furniture, colour theory and harmony, and planning of interiors. History of painting with special attention to the moderns, supplemented by coloured lantern slides.

2nd Yr.:—2 lects., per wk., 2 terms. Miss Elderkin.

21. COSTUME.—This course instructs in the principles of design as applied to dress, good grooming and fashion shows. Textiles are studied as to fibre, construction and use.

2nd Yr.:—2 lects., per wk., 1 term. Miss Cliff.

BACTERIOLOGY

30. GENERAL MICROBIOLOGY.

3rd Yr.:—2 lects., 2 labs., per wk., 1st term. Professor Gray.

34. FOOD MICROBIOLOGY.

3rd Yr.:—1 lect., 2 labs., per wk., 2nd term. Dr. Thatcher.

BOTANY

Taken with B.Sc. (Agr.).

10. INTRODUCTORY BOTANY.

1st Yr.:—2 lects., 2 labs, per wk., 2 terms. Professor Coulson.

CHEMISTRY

Taken with B.Sc. (Agr.).

10. Inorganic Chemistry.

1st Yr.:—3 lects., 2 labs., per wk., 2 terms. Professor Benham.

20. Organic Chemistry.

2nd Yr.:—2 lects., per wk., 1st term.

3 lects., 2 labs., per wk., 2nd term. Professor Benham.

21. Analytical Chemistry.

2nd Yr.:—1 lect., 2 labs., per wk., 1st term. Professor Benham.

32. General Biochemistry.

3rd Yr.:—2 lects., 2 labs., per wk., 1st term. Professor McFarlane.

47. Physiological Chemistry.—Prerequisite Chemistry 32 and Physics 33.

3rd Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor McFarlane.

50. Textile Chemistry.—Laboratory Course to Textiles 42, B.H.S. Examination of the structure, chemical composition and properties of textile fibres; bleaching; blueing and dyeing; analyses of water and soap. Prerequisite:—Textiles 42.

4th Yr.:—1 lab., per wk., 2nd term. Professor McFarlane.

CLOTHING

30. Principles of Clothing Construction.—Three garments are made, one each of cotton, wool and rayon.

3rd Yr.:—2 lects., 1 lab., per wk., 1 term. Miss Cliff.

40. Principles of Clothing Selection and Construction.—An advanced course in dressmaking and costume design including pattern making and draping; weaving a length of cloth which is then tailored into a suit or coat. Problems of fitting and clothing the child or high school girl are studied during the construction of remodelled garments.

4th Yr.:—1 lect., 2 labs., per wk., 2 terms. Miss Cliff.

ECONOMICS

Taken with B.Sc. (Agr.).

20. Elementary Principles.

3rd Yr.:—3 lects., per wk., 2nd term. Professor Lattimer.

EDUCATION

30. Educational Psychology.—General and practical aspects applied to teaching, learning and living.

3rd Yr.:—3 lects., per wk., 1st term. Professor Paton.

40. (a) Methods of Teaching.—The laws of learning and their application to teaching; selection and organization of subject matter, different types of lessons; teaching devices; class management; observation work and the teaching of at least two lessons.

4th Yr.:—The equivalent of 3 lects., per wk., 1st term. Miss Honey.

40. (b) Practice Teaching.—This will include a definite amount of practice teaching with further opportunity for observation. Problems arising from practice teaching at Macdonald College and in Montreal will serve as a basis for some of the discussion. Work will be taken in the planning and selecting of equipment and in school law.

4th Yr.:—Practice teaching and observation, 2 hours per week; conference, 1 hour per week, 2nd term. Miss Honey.

41. Demonstration Practice.—This course is planned to furnish both training and practice in demonstrations suitable for use in schools, hospitals, extension work, women's clubs, and the commercial field.

4th Yr.:—The equivalent of 3 lects., and 1 conference hour, per week, 2nd term. Miss Honey.

ENGLISH

Taken with B.Sc. (Agr.).

14. English Composition.

1st Yr.:—1 lect., 1 lab., per wk., 2 terms. Mr. Avison.

15. English Literature.

1st Yr.:—2 lects., per wk., 2 terms. Mr. Avison.

24. English Literature.

2nd Yr.:—2 lects., per wk., 1st term.
1 " " " 2nd " } Professor Paton.

EXTENSION METHODS

30. Extension Methods.—An elective course in public speaking, study group technique, extension methods in Agriculture and Household Science, rural sociology.

3rd or 4th Yr.:—1 lect., 1 lab., per wk., 2 terms. Mr. Avison and Committee.

FOODS AND COOKERY

24. Theory of Foods.—A study of foods from the standpoint of nutritive value and Canadian food laws.

2nd Yr.:—1 lect., per wk., 2 terms. Miss Honey.

25.—Cookery.—This course aims to teach the principles of cookery, with the study of foods from the standpoint of production and selection, and to give opportuuity for practice in the preparation of foods to render them both palatable and attractive.
2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Miss Honey.

30. Theory of Foods.—Historical study and appreciation of foods.
3rd Yr.:—1 lect., per wk., 2 terms. Miss Stickwood.

31. Advanced Cookery.—This course gives a more extensive knowledge of the history and development of cookery. Laboratory practice is given to develop an appreciation of the variety of methods of food preparation. Experimental methods.
3rd Yr.:—1 lect., 1 lab., per wk., 2 terms. Miss Stickwood.

HOUSEHOLD ADMINISTRATION

20. Household Administration.—A study of the organization and management of the home including meal planning, table service, and factors in selection, care, and arrangement of household furnishings and equipment.
2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Miss Taylor.

31. Home Management.—Opportunity is given to study the value of organization in a well-equipped house on the campus. Under supervision the students have complete charge of managing the home and gain experience in planning menus, marketing and accounting.
3rd or 4th Yr.:—3 weeks. Miss Taylor.

HOUSEHOLD SCIENCE

10. Introduction to Household Science.—A course of lectures arranged to acquaint the student with the development and scope of Household Science training.
1st Yr.:—3 lects., per wk., 1st term. Household Science Staff and others.

INSTITUTION ADMINISTRATION

40. A study of the principles of efficient organization and administration with application to hospital, commercial, industrial and educational dietary departments. Practice is provided in a model dining department fitted with up-to-date equipment. Visits are made to institutional kitchens, markets and cold storage plants.
4th Yr.:—2 lects., per wk., 2 terms, and practical experience in model dining department. Miss Stickwood.

MATHEMATICS

Taken with B.Sc. (Agr.).

10. Elementary Mathematical Analysis.
1st Yr.:—3 lects., per wk., 2 terms. Mr. Irvine.

NUTRITION AND DIETETICS

40. Dietetics.—A study of the principles of human nutrition.
4th Yr.:—2 lects., 1 lab., per wk., 1st term. Miss Stickwood.

41. Diet Therapy.—The function of nutrition as a curative and preventive factor in disease. Visits to hospital clinics and dietary departments.

4th Yr.:—4 lects., 1 lab., 1 seminar, per wk., 2nd term. Miss Stickwood.

44. Nutrition Seminar.
4th Yr.:—2 lects., per wk., 1st term. Miss McCready and Professor Crampton.

45. Fundamentals of Nutrition.—For description see Animal Husbandry Course 45 in the B.Sc. (Agr.) syllabus.
4th Yr.:—2 lects., per wk., 1st term.
1 lect., 2 labs., per wk., 2nd term. Professor Crampton.

PHYSICAL EDUCTION

10. Physical Education will be included in the work of the first year, all students being required to attend a minimum of two hours weekly during the session. Opportunity is provided for participation of all students in archery, swimming, basketball, skating, hockey and badminton.

PHYSICS

Taken with B.Sc. (Agr.).

12. General Physics.
1st Yr.:—3 lects., 1 lab., per wk., 2 terms. Dr. Rowles.

33. Biophysics.
3rd. Yr.:—2 lects., 2 labs., per wk., 1st term. Dr. Rowles.

PHYSIOLOGY

Taken with B.Sc. (Agr.).

30. Elementary Physiology.
3rd Yr.:—3 lects., per wk., 2nd term. Mr. Barker.

SOCIOLOGY

40. Modern Communities.—A study of typical modern communities in rural and urban areas; the relations of rural and urban communities as indicated by the spread of urbanization; present-day trends in the social and economic organization of rural and urban communities; present-day community problems.

3rd or 4th Yr.:—3 lects., per wk., 1st term. Given in 1943-44. Hours to be arranged. Professor Dawson (Faculty of Arts and Science).

41. The Modern Family.—The social and economic backgrounds of the modern family; the varied marriage systems of different parts of the world; modern trends in family standards of living; forces making for social change and readjustment of the family in North America; factors making for future family stability.

3rd or 4th Yr.:—3 lects., per wk., 1st term. Given in 1944-45. Hours to be arranged. Professor Dawson.

TEXTILES

10. Laundering.—Chemical study of textile fibres, methods of laundering, stain removal and dry cleaning.

1st Yr.:—2 lects., 1 lab., per wk., 2nd term. Miss Cliffe.

42. Textile Fibres and Fabrics.—The source, construction, properties and qualities of textile fibres and fabrics used in clothing; furnishings for the home and institution will be studied in order to establish a basis for the wise selection of textile materials by the consumer. Prerequisite to Chemistry 50.

4th Yr.:—1 lect., per wk., 2 terms. Miss Cliff.

ZOOLOGY

Taken with B.Sc. (Agr.).

20. Elementary Zoology.

2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor DuPorte, Mr. Whitehead and Dr. Morrison.

B.Sc. (H.Ec.) Course Examinations

(See page 943)

BOOKS

Students will be required to secure text-books for some of the courses. These may be obtained at the College, and $5.00 to $10.00 should cover the cost per year for the Homemaker Class, and $15.00 per year for the B.Sc. (H.Ec.) Course.

POST-GRADUATE DIETITIAN COURSE

A course at Macdonald College is offered to degree graduates of accredited home economics schools. This course includes the following:—Work in department store-room taking charge of supplies; supervision work in Dining-Room; and executive work in Dietitian's Office. Opportunity is given for experience in the Housekeeping Department—care of rooms, linen, etc. Students are enabled to attend related classes in the School of Household Science.

Room, board and laundry are provided.

Uniform Requirements:—Six white uniforms; six white aprons; shoes—white Oxfords with rubber heels.

Free Time:—One-half day per week and alternate Sundays.

THE SCHOOL FOR TEACHERS

By an agreement with the Government of the Province of Quebec, dated February 25 and 26, 1907, confirmed by an Act of the Legislature of the Province of Quebec, 7 Edward VII, 1907, chapter 26, it was provided that a school for the training of teachers for the schools under the control of the Protestant Committee of the Council of Education should be established and carried on at Ste. Anne de Bellevue in lieu of the McGill Normal School in Montreal, under the regulations of the Protestant Committee.

This institution is intended to give a thorough training to teachers, by instruction and training in the School for Teachers itself, and by practice in the practice schools; and the arrangements are of such a character as to afford the greatest possible facilities to students from all parts of the Province. The Protestant Central Board of Examiners for the Province of Quebec grants diplomas to teachers-in-training of this school, and to graduates of Canadian or other British universities who have received the necessary training.

For the duration of the war the School for Teachers will be operated at Strathcona Hall, 772 Sherbrooke Street West, Montreal. Correspondence from prospective students should, however, be addressed to Macdonald College, P.Q.

ANNOUNCEMENT FOR THE SESSION 1943-44

The thirty-seventh session of this school will begin on the seventh of September, 1943, and will close on the eighth of June, 1944.

The students are graded as follows:—

1.—*Elementary* Class.

2.—*Intermediate* Class.

3.—*Kindergarten* Class.

ENTRANCE REQUIREMENTS

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Education for the Province of Quebec will be admitted under conditions prescribed by that body, as hereinafter mentioned.

After receiving certificates of admission, candidates accepted must send to the authorities of Macdonald College a certificate of vaccination as follows:—(a) Successful vaccination within seven years; or (b) Immunity to vaccine after two recent unsuccessful vaccinations; such certificate of immunity to be good for five years from date.

Whenever the authorities of Macdonald College receive the lists of candidates admitted to the various classes, they will communicate immediately with all accepted candidates regarding registration, the sending of the admission certificate and the vaccination certificate. They will also forward a copy of the announcement to those who have not already received one. Candidates who are accepted are, therfore, requested to withhold separate inquiries, pending receipt of such general advice from the College.

Candidates who have received admission certificates, but find themselves unable to attend the College, are requested to advise Dr. W. P. Percival, Department of Education, Quebec, Que., of that fact without delay.

MODE OF ADMISSION TO THE SCHOOL FOR TEACHERS

Any one desiring to take a course in the School for Teachers to qualify for teaching in the Province of Quebec, must apply for authorized forms of application for admission, and for all other information, to the Secretary of the Protestant Central Board of Examiners, Dr. W. P. Percival, Department of Education, Quebec, Que. Application for admission must be made *on or before July 20th.*

Candidates are advised to obtain and read carefully the circular entitled *Information for Candidates* issued by the Protestant Central Board of Examiners.

Candidates for any class must be British subjects, or must have begun the necessary proceedings to become such, and must furnish the certificates of age and of good moral character, as required by the regulations. They must also send a medical certificate on a special form obtainable from Dr. Percival. This must show to the satisfaction of the Central Board that the candidate is in good health and free from physical defects likely to interfere with his usefulness as a teacher.

All such candidates, before entering upon a course, must sign an agreement to teach in the Province of Quebec for at least three years after graduation.

Candidates for diplomas for teaching in the Province of Quebec must satisfy the requirements laid down by the Protestant Central Board of Examiners for entrance to the several courses of study in the School for Teachers. Their attention is specifically called to the fact that the courses in French in the School for Teachers are conducted largely in that language. Students who have not had Oral French in the High School grades should make themselves familiar with Oral French as far as possible before entering the School for Teachers. Otherwise, they will find themselves seriously handicapped.

ELEMENTARY DIPLOMA.—The examinations for admission to the Elementary Class in the School for Teachers are the High School Leaving or University Matriculation Examinations, showing a pass in ten papers.

Candidates for this certificate should have entered their eighteenth year before the first day of September, 1943; that is, they should have been born before the first day of September, 1926.

INTERMEDIATE DIPLOMA.—The examinations for admission to the class leading to the intermediate certificate are the Senior High School Leaving or the Senior University Matriculation Examinations.

The holder of an elementary certificate or diploma with professional training who has obtained a Senior High School Leaving Certificate since receiving such certificate or diploma may be admitted to the Intermediate Class after Christmas to complete the course required for an intermediate certificate. For this purpose the examination for the Senior High School Leaving Certificate may be taken in two parts.

Candidates for this diploma should have entered their nineteenth year before the first day of September, 1943, that is, they should have been born before the first day of September, 1925.

KINDERGARTEN CLASS.—The Kindergarten Director's Course is of one year's duration. For entrance to it there is required either: (a) An intermediate certificate or diploma; or (b) *In the case of Montreal students only*, a Kindergarten Assistant's certificate.

Candidates for this diploma are admitted only upon a report of the Dean of the School for Teachers to the effect that they possess the necessary special fitness for kindergarten work.

SPECIAL CONDITIONS

The Central Board of Examiners has the right to admit to any class, in exceptional cases, persons whose qualifications may be insufficient for entrance. Any person who applies for admission under special circumstances should give on the back of his application form a full statement of his reasons for asking special consideration.

The Central Board of Examiners may grant diplomas of any grade to candidates in special cases upon any examination specifically indicated by it.

The Central Board of Examiners has power to limit the number of admissions to the School for Teachers.

BURSARY REGULATIONS

Applying to those who enter the School for Teachers
in September, 1943.

155. Bursaries of one hundred dollars each shall be paid from the released Normal School fund to such teachers-in-training for elementary certificates in the School for Teachers as shall comply with the regulations in regard thereto, as follows:—

(a) Candidates must promise by a witnessed writing to teach three years in some rural elementary school in the Province of Quebec.*

(b) Candidates must enter into a joint obligation with a parent or guardian to reimburse to the Department of Education the amount of the bursary received should they not, within five years, fulfil their said obligation to teach.

(c) No candidate may receive a bursary for two years, but, in case of failure in one year, he may receive the balance of the bursary on the successful completion of his course in a subsequent year.

(d) Candidates for bursaries shall make their applications for the same to the Secretary of the Central Board of Examiners when applying for admission to the School for Teachers.

(e) It is further provided that, in addition to the payment of the foregoing bursaries, similar bursaries shall be paid to such teachers as having not signed the required promise to teach, nevertheless have fulfilled the obligation entered into by others to teach three years in some rural school in the Province of Quebec.

156. (a) The bursaries to teachers-in-training shall be paid in two equal instalments, in December and in June, to those only who are certified by the Dean of the School for Teachers to have pursued their course of studies with reasonable diligence, and to this end the School for Teachers shall draw upon the Department of Education, make the individual payments, and render an account to the Director of Protestant Education.

(b) The bursaries to teachers who come under the provisions of regulation 155 (e) shall be divided into three equal portions and shall be paid only at the end of each year of successful teaching, but in no case shall they be paid after five years from the date of the diploma.

Although students who take the course leading to an intermediate certificate do not receive a bursary during attendance at the School for Teachers, they may do so under this regulation and regulation 155 (e) after they shall have qualified by teaching in some rural school.

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*The elementary department of an Intermediate or of a High School is not included in this term.

(c) The Director of Protestant Education may release for good and sufficient cause a teacher from any obligation to teach three years in the Province of Quebec, but this release shall not remove the obligation to return any bursaries that may have been received.

For official form of certificate of teaching required under regulation 155 (e), and any other information, apply to Dr. W. P. Percival, Department of Education, Quebec, Que.

TRAVELLING EXPENSES

On being awarded an elementary, intermediate, or kindergarten certificate, each teacher-in-training at the School for Teachers residing 200 miles or more from Montreal will be paid, out of the funds provided by the Government, the sum of five cents for each mile that his home, in the Province of Quebec, is distant from Montreal.

TEACHERS' DIPLOMAS

The Director of Protestant Education and the Protestant Central Board of Examiners, under Regulation 114 of the Regulations of the Protestant Committee, alone have the power to grant certificates and diplomas valid for Protestant schools.

To graduates of training courses, interim certificates shall be granted of the following grades, namely:—kindergarten, elementary, intermediate, and high school. The elementary certificate is primarily intended to permit the holder to teach in rural elementary schools.

Interim elementary, kindergarten and high school certificates shall be exchanged for permanent diplomas of the respective grades when evidence of successful teaching for two years shall have been submitted to the Director of Protestant Education.

Interim intermediate certificates shall be exchanged for permanent intermediate diplomas when evidence of successful teaching for two years shall have been submitted to the Director of Protestant Education as well as of the successful completion of one session at an approved summer school.

Holders of interim certificates who, in the opinion of the Inspector, shall have taught successfully shall receive from him statements to that effect. When teachers have obtained two such recommendations and have satisfied summer school requirements that may be demanded of them they shall send the statements together with their interim certificates to the Department of Education where they will be exchanged for permanent diplomas.

Under the regulations of the Protestant Committee, certificates and diplomas of any grade are given only to teachers who have taken professional training.

The examinations for elementary, kindergarten, and intermediate certificates shall be the sessional examinations of the School for Teachers, together with reports on ability to teach and to govern, rendered by the Dean of the School.

Advanced elementary and advanced intermediate diplomas are granted after successful attendance at Summer School for two and three sessions, respectively.

Graduates and undergraduates who are candidates for High School diplomas must take the lectures in Education provided by the universities or the School for Teachers, and during their third and fourth years, or their post-graduate year, must teach fifty half-days as required by regulation. The months of September, May, and June are set apart for this practice-teaching.

All holders of intermediate diplomas from the School for Teachers shall be entitled to receive high school diplomas on graduating at some Canadian or other British University provided they have fulfilled the requirements in regard to their degree course that are demanded in Regulation 129 (f).

ELEMENTARY CLASS STUDYING FOR AN ELEMENTARY CERTIFICATE

The course for the above certificate falls naturally into the following divisions: (a) A general review of subjects taught in rural schools; (b) Special methods of teaching the following—English, Arithmetic, French, History, Geography, Nature Study and Agriculture, Writing, Drawing, Hygiene and Physical Training, Scripture, Music, Primary Methods; (c) Courses in the Principles of Education, Educational Psychology, Tests and Measurements, School Management and School Law; (d) Observations and practice teaching. A great deal of emphasis will be laid on the ability displayed by teachers-in-training in this phase of their work.

FOR THE KINDERGARTEN DIRECTORS' CERTIFICATE

The Kindergarten Director's Course extends for one year. For entrance to it candidates must possess either:—(a) An intermediate certificate or diploma; or (b), *In the case of Montreal students only*, a Kindergarten Assistant's certificate.

The candidates must also have additional qualifications, such as love of children, a good voice, musical ability, and an engaging manner.

To enter upon the course leading to a Kindergarten Assistant's certificate, given in co-operation with the Protestant Board of School Commissioners of Montreal, the candidate must have a School Leaving or Matriculation certificate, and must undertake to follow the two years' course of lectures and practice work.

In the Kindergarten Director's Course, students will be employed in the practical work of the Kindergarten during the forenoon of each school day, and will follow a selected course of practical and professional training every afternoon.

Among the subjects taken will be Principles of Education, History of Infant Education, School Management and Law, Kindergarten Theories, Nature Study, Music, Art Work, Hand Work, Physical Training, Games and Songs of the Kindergarten, Stories and Story-telling.

Special attention will be paid to transition work, so that it is hoped those who complete the work of this Class will be specially fitted for the difficult task of training young children effectually in the rudiments of ordinary school work in succession to the work of the Kindergarten, bridging over the chasm that too frequently separates the Kindergarten from the Primary Class.

INTERMEDIATE CLASS STUDYING FOR THE INTERMEDIATE CERTIFICATE

Regular courses of lectures in the History of Education and in the Principles of Education, School Management and Law, will continue throughout the year. In the specific subjects of Agriculture, Elementary Algebra, Arithmetic, Art and Manual Training, English, French, Geography, Geometry, History, Music, Nature Study, Needlework, Physical Culture, Physiology and Hygiene, the same general methods will be employed as in the class studying for the elementary certificate, and just as in it (see page 970) observation and practice in teaching will receive particular attention.

DESCRIPTION OF COURSES

AGRICULTURE

(See GEOGRAPHY and NATURE STUDY, pages 973, 974)

ART AND MANUAL TRAINING

COURSE 1—INTERMEDIATE CLASS.—The Art and Manual Training prescribed for elementary and intermediate schools.

COURSE 2—ELEMENTARY CLASS.—Work suitable for rural schools.

COURSE 3—KINDERGARTEN CLASS.—Work suitable for younger children; also advanced Art in a variety of media.

EDUCATION

COURSE 1—HISTORY OF EDUCATION.—INTERMEDIATE CLASS.—Educational theories and practices from Socrates to modern times.

COURSE 2—EDUCATIONAL PSYCHOLOGY. INTERMEDIATE CLASS. The main aspects of Psychology as they are of direct practical value in the art of teaching.

COURSE 2a—MENTAL HYGIENE. INTERMEDIATE CLASS. Training for exceptional children.

COURSE 3—PRINCIPLES OF GENERAL METHOD. INTERMEDIATE CLASS. Various types of lessons, methods and devices.

COURSE 4—SCHOOL AND CLASS MANAGEMENT. INTERMEDIATE CLASS. Various types of schools, their organization, classification and management, from the smaller routine items to the larger problems of time-table construction, discipline, and control.

COURSE 5—SCHOOL LAW AND REGULATIONS. INTERMEDIATE CLASS. The school law and regulations affecting teachers and pupils.

COURSE 6—EDUCATION, PRINCIPLES OF GENERAL METHOD. ELEMENTARY CLASS. The fundamental principles underlying all special methods, organization of subject matter, the planning of recitations, various types of lessons.

COURSE 7—EDUCATIONAL PSYCHOLOGY. ELEMENTARY CLASS. Those aspects of Educational Psychology which are of importance to the teacher.

COURSE 7a—TESTS AND MEASUREMENT. ELEMENTARY CLASS. The construction and use of new type tests in the class room.

COURSE 8—MENTAL HYGIENE—ELEMENTARY CLASS. See Course 2a.

COURSE 9—SCHOOL AND CLASS MANAGEMENT. ELEMENTARY CLASS. Same as Course 4 except special emphasis will be laid on rural organization, etc.

COURSE 10—SCHOOL LAW AND REGULATIONS. ELEMENTARY CLASS. Same as Course 5.

COURSE 11—SEMINAR IN PRACTICE TEACHING. ELEMENTARY AND INTERMEDIATE CLASSES. Criticism and discussion of actual lessons taught by students in the Practice School and in Montreal schools.

COURSE 12—PRINCIPLES AND PRACTICE. KINDERGARTEN DIRECTORS' CLASS. Various types of Kindergarten theories and practices.

COURSE 13—HISTORY, THEORY AND PRACTICE OF THE KINDERGARTEN. KINDERGARTEN DIRECTORS' CLASS. Development of modern methods and current practice.

COURSE 14—THEORY AND PRACTICE OF THE KINDERGARTEN. KINDERGARTEN ASSISTANTS' CLASS. This course is given to the Kindergarten Assistants' Classes in the High School for Girls, Montreal.

COURSE 15—CHILD PSYCHOLOGY. KINDERGARTEN ASSISTANTS' CLASS. This course is given in the High School for Girls, Montreal.

COURSE 16—EDUCATIONAL PSYCHOLOGY, 3RD YEAR B.Sc. (H.Ec.) STUDENTS. See page 961.

NOTE:—For courses in Education required for the High School diplomas, see the Announcement of the Faculty of Arts and Science, McGill University.

ENGLISH

INTERMEDIATE CLASS:

COURSE 1: Literature (Reading and Appreciation). Content and methods, applied to the prescribed courses of study in elementary schools; problems in silent and oral reading; tests of reading ability; examinations in literature.

COURSE 2: Language (Composition and Grammar). Typical units of oral and written work throughout the grades; a study of grammar—functional for the pupil, formal for the teacher; spelling and vocabulary building; the marking of written compositions.

COURSE 3: English, the Curriculum, and the Teacher—The relation of English to other subjects on the course of study; special problems in the junior high school grades; academic and professional preparation to teach English acceptably.

ELEMENTARY CLASS:

COURSES 1 AND 2: As above.

COURSE 3: Problems of English teaching in rural schools.

FRENCH

COURSE 1—INTERMEDIATE CLASS. Pronunciation, review, methods, and devices for teaching Oral French. An individual oral examination is required from all students.

COURSE 2—ELEMENTARY CLASS. Lessons suitable for a rural school.

Opportunities for practice are afforded by the constant use of French in the class room and at the Cercle Français where meetings are conducted entirely in French. The programmes of the Cercle Français consist of songs, games, impromptu speeches, short plays, illustrated lectures and an occasional *causerie* by well-known French speakers.

GEOGRAPHY

COURSE 1—INTERMEDIATE CLASS. Review of fundamental principles, detailed studies and methods of teaching.

COURSE 2—ELEMENTARY CLASS. Scholarship and methods suitable for rural schools.

Intermediate and Elementary students are requested to provide themselves with a copy of Frye and Gammell's *Geography*, Thralls and Reeder, "*Geography in the Elementary School*" (Rand McNally), Stembridge "*The World*" (Clarke, Irwin Co., Toronto) as well as a *Geography Note Book* published by Copp Clark Company.

HISTORY

COURSE 1—INTERMEDIATE CLASS. Methods of teaching the Course of Study.

COURSE 2—ELEMENTARY CLASS. Methods adapted to rural school conditions.

Intermediate and Elementary students are requested to provide themselves with a copy of Bengay's, *"A History of Canada"* (Nelson), as well as a *Canadian History Note Book*, published by Copp Clark Company.

MATHEMATICS

COURSE 1—INTERMEDIATE CLASS.

a. ARITHMETIC. Present-day movements and methods of teaching Arithmetic.

b. ALGEBRA AND GEOMETRY. Methods for teaching the Course of Study for Grade IX.

Texts Required:—Morton's *Teaching Arithmetic in the Intermediate Grades* (Revised edition); Hall and Knights' *Elementary Algebra*, Hall and Stevens' *A School Geometry*.

COURSE 2—ELEMENTARY CLASS. Arithmetic for the rural ungraded school.

Texts Required:—Morton's *Teaching Arithmetic in the Elementary School, Vol. 2, Intermediate Grades* (Revised edition).

MUSIC

COURSE 1—KINDERGARTEN CLASS. Methods and music suitable for the Kindergarten.

COURSE 2—INTERMEDIATE CLASS. The Course of Study and methods of teaching it.

COURSE 3—ELEMENTARY CLASS. Music in rural schools.

Music Certificates. All students must devote individual study towards preparation for one of the music certificates, issued by the Protestant Central Board of Examiners. The certificates are in four grades, viz.:—Preliminary, Junior, Senior and Advanced. Details of the necessary requirements will be found posted at all times in the College Music Room.

NATURE STUDY

COURSE 1—INTERMEDIATE CLASS. Methods of teaching natural topics on a seasonal basis according to local environment.

COURSE 2—ELEMENTARY CLASS. Methods and suggestions suitable for rural teachers.

NEEDLEWORK FOR WOMEN

Construction of simple, attractive and useful articles employing the use of various hand stitches and the sewing machine. A study of materials and their uses, properties of the various fibres and simple tests for their identification. One period a week for one term.

PHYSICAL EDUCATION

INTERMEDIATE AND ELEMENTARY CLASSES.

The authorized course is the *Syllabus of Physical Training for Schools, 1933*, supplemented with indoor and outdoor games, etc.

Students must wear the regulation costume for gymnastic work. See page 908.

Students wishing to swim must provide themselves with woollen bathing suits of guaranteed fast dye.

STRATHCONA TRUST CERTIFICATE

Students in the School for Teachers must qualify themselves to pass the examinations for Strathcona Trust Certificates, and be able to teach the *Syllabus of Physical Exercises, 1933*, approved by the Strathcona Trustees and adopted for the province:—Grades A and B for men and Grade B for women.

TROPHIES, CUPS AND MEDALS FOR WOMEN. See page 981.

PHYSIOLOGY AND HYGIENE

COURSE 1—INTERMEDIATE CLASS. Personal and School Hygiene; methods of teaching the Course of Study.

COURSE 2—ELEMENTARY CLASS. Conditions and needs of rural schools, in relation to Personal and School Hygiene.

PRIMARY METHODS

COURSE 1—INTERMEDIATE CLASS. Junior children and the approach to Language, Reading, Spelling, Poetry, Story, Geography, History, Writing and Scripture.

COURSE 2—ELEMENTARY CLASS. Methods and suggestions for the work in the junior and beginners' classes in a rural school.

A practical course is given in the preparation of classroom and individual material. Students are advised to bring smocks, scissors, penknife.

ENTERPRISES—Theory and practical work will be carried out by all students.

RELIGIOUS INSTRUCTION

Teachers-in-training will be required to state with what religious denomination they are connected, and to meet weekly for Religious Instruction in accordance with the scheme provided from time to time by the Teachers' Training Committee and approved by the Protestant Committee. Every Thursday after four o'clock is at present assigned for this purpose. In addition to punctual attendance at weekly Religious Instruction, each student will be required to attend public worship at least once every Sunday.

SCRIPTURE

INTERMEDIATE, ELEMENTARY, AND KINDERGARTEN CLASSES.

The course of study, moral training and opening exercises.

BOOKS

See also page 905.

Students should bring with them all books in their possession which may be of service in preparing to teach elementary, intermediate or High School classes, and also books on the professional training of teachers.

Textbooks in the various classes are announced by each professor or lecturer at the beginning of the session, and are naturally subject to change from time to time unless specified under the various courses.

ROOM FURNISHINGS

For room furnishings required at Strathcona Hall, see page 906.

THE MACDONALD HIGH SCHOOL

The Macdonald High School is organized as a Protestant High School, and in general subjects follows the courses prescribed by the Protestant Committee of the Council of Education for the kindergarten, elementary, intermediate, and High School grades of the Province. Special courses are also given by specialists in Music, Physical Training, Cooking, Sewing, Manual Training, Physics, and Chemistry.

The School will open Tuesday, September 7th.

There are no fees for Protestant children from the Protestant School Municipalities of Ste. Anne de Bellevue, Ste. Anne du Bout de l'Isle, Senneville, and Vaudreuil—Dorion, but for all other pupils, who are accepted if there is accommodation, there is a fee of $70.00 per pupil per year for all grades. This fee is payable *strictly in advance*, by four instalments of $17.50 each to the Secretary, Macdonald College, Que., on September 1st, November 1st, February 1st, and April 1st, respectively.

There is no residence accommodation for pupils attending the High School.

All candidates for admission to the High School must produce a medical certificate of vaccination as follows: (a) Successful vaccination within seven years, or, (b) Immunity to vaccine after two recent unsuccessful vaccinations—such certificate of immunity to be good for five years from date.

See also page 893.

SCHOLARSHIPS AND PRIZES

GENERAL

Bursaries for Sons of Farmers

The following bursaries are available on application for *sons of farmers* of Quebec, the Ottawa Valley in Ontario, and the Maritime Provinces, who are living in residence at the College.

Diploma Course students	$10.00
Degree Course students	15.00
Postgraduate students	15.00
School for Teachers' students	15.00

Application for one of these bursaries must be made at the beginning of the session and must be accompanied by a recommendation from the local agronome, agricultural representative, or similar official.

MACDONALD COLLEGE BURSARIES

A limited number of bursaries and scholarships are available for degree students in the Faculty of Agriculture. Application should be made to the Registrar before October 15.

FACULTY OF AGRICULTURE

Diploma Course

The Fisher Trust Fund, in memory of the late Honourable Sydney A. Fisher, formerly Member of Parliament for Brome County and Minister of Agriculture, Canada, offers for the session 1943-44, two agricultural scholarships of $75.00 a year each, tenable at Macdonald College for two years, for the Diploma Course in Agriculture, from November 2nd, 1943, to March 31st, 1944, on the following conditions:—

1. The candidates must be sons of farmers in the County of Brome, co-operating in farm activities during the period of their college course.

2. The candidates must be at least sixteen years of age.

3. The candidates must have passed at least grade IX of the High School Course.

4. These scholarships will be continued from term to term only upon favourable reports from the Dean of the Faculty of Agriculture.

Applications must be sent, on or before the 1st of October, 1943, to the Chairman of the Fisher Trustees, R. F. Cowan, Mansonville, Que.

Lieutenant-Governor's Medal. His Honour the Lieutenant-Governor of the Province of Quebec, gives annually a bronze medal, which is awarded to the student who takes the highest percentage in General Proficiency in the First Year of the Diploma Course.

Minister of Agriculture's Medals. The Honourable the Minister of Agriculture of the Province of Quebec, offers annually two bronze medals in connection with the Diploma Course, Second Year Class, to be presented to the students ranking first in the Dairy Farming and in the Fruit Farming Groups respectively.

B.Sc. (Agr.) Course

Nova Scotia College of Agriculture Scholarship—Macdonald College offers a scholarship of two years' tuition (value of $100.00) to the student of the Nova Scotia College of Agriculture obtaining the highest standing in the work of the Second Year of the degree course in that College.

The Daughters of the Empire Bursary—As a recognition of the value of agricultural education in their Province and Country, the Imperial Order of the Daughters of the Empire, Quebec Provincial Chapter, gives a bursary of $200.00, tenable during the third and fourth years of the B.Sc. (Agr.) course, to the British student who obtains the highest marks in the final examinations of the second year. The bursary is payable to the winning student in two instalments of $100.00 each at the beginning of his third and fourth years respectively.

Governor General's Medal—His Excellency the Governor General of Canada donates a bronze medal to be awarded to the second year student who ranks highest in General Proficiency in first and second year work.

Lieutenant-Governor's Medal—His Honor the Lieutenant-Governor of the Province of Quebec gives annually a silver medal, which is awarded to the student who takes the highest standing in General Proficiency in the first year of the B.Sc. (Agr.) course.

The Stern Cup—Sir Edward D. Stern, Fan Court, Chertsey, Surrey, England, has donated a silver challenge cup, which is held for one year by the student who makes the highest aggregate in Stock Judging in the final year of the subject.

The Cutler Shield—Mr. Garnet H. Cutler, Professor of Agronomy, Purdue University, Lafayette, Indiana, the first lecturer in Cereal Husbandry, Macdonald College, has donated a bronze challenge shield, which is held for one year by the student majoring in Agronomy, who makes the highest aggregate in the final year.

The Conklin Trophy—Dr. Raymond L. Conklin gives a trophy to be awarded to the student in any year of the degree course who obtains the highest percentage of total marks, and who, during the same year, has won a place on the College (Canadian) Rugby team and on one other team sport. The trophy will be awarded only once to any individual.

The T. Fred Ward Swimming Trophy—A silver challenge cup donated by Mr. T. F. Ward, Secretary of the College, to be held for one year by the student winning the greatest number of points at the annual men's swimming meet.

The Lochhead Memorial Prize—In memory of her late husband, William Lochhead, B.A., M.Sc., the first Professor of Biology in Macdonald College, Mrs. Lochhead has established by an endowment of $400.00, a prize to be awarded to the student, majoring in Entomology, who takes the highest standing in the fourth year, the prize, in value equal to the proceeds of the endowment for one year, to be in books selected by the winner with the approval of the Head of the Department of Entomology.

The Dr. John L. Todd Gymnastic Medals for Women. See page 983.

The Janet Morison Robb Bursary for Women. See page 982.

NOTE:—No prize will be awarded to any student in any of the classes, whose percentage of marks is below seventy, unless by special action of the Faculty.

B.Sc. (H.Ec.) COURSE

His Honour the Lieutenant-Governor of the Province of Quebec donates two medals:

(1) *A silver medal,* to be awarded to the student who ranks highest in the third year of the B.Sc. (H.Ec.) Course.

(2) *A bronze medal,* to be awarded to the student who ranks highest in the second year of the B.Sc. (H.Ec.) Course.

The Montreal Housewives' League gives a prize for the best results secured in the conservation of food, as demonstrated in home methods of canning fruits and vegetables. The prize is open to the graduating class in the B.Sc. (H.Ec.) Course.

The Frederica Campbell Macfarlane Scholarship.—A scholarship has been donated by the Quebec Women's Institutes in memory of the late Frederica Campbell Macfarlane, graduate in Institution Administration, 1912, Superintendent of Quebec Women's Institutes from 1913 to 1919. This scholarship is of the value of $50.00, is open only to students from a rural district of the Province of Quebec, and is awarded on the results of the final examinations in any one of the first three years of the B.Sc. (H.Ec.) Course.

The Dr. John L. Todd Gymnastic Medals for Women. (See page 983).

The Janet Morison Robb Bursary for Women. (See page 982).

UNIVERSITY SCHOLARSHIPS

In addition to the foregoing, Degree students at Macdonald College are eligible to apply for the following University scholarships. Particulars will be found in the announcement of Scholarships, Bursaries, Prizes, Medals and Loan Funds, obtainable from:—The Registrar, McGill University, Montreal, Que.

Ottawa Valley Bursaries,

The Isabella C. MacRae Scholarships,

Bnai Brith Bursaries,

Leonard Foundation Scholarships,

The Christie-Storer Chapter Scholarship,

Khaki University and Y.M.C.A. Memorial Scholarship Fund,

Frederick Southam Ker Bursary.

Homemaker Course

His Excellency the Governor-General of Canada donates a bronze medal to be awarded to the Homemaker student who ranks highest in General Proficiency.

The Montreal Local Council of Women donates a prize in books to the value of $10.00 to be awarded to the student or students of the Homemaker Course showing outstanding ability in practical subjects.

The Dr. John L. Todd Gymnastic Medals for Women. See page 983.

The Janet Morison Robb Bursary for Women. See page 982.

SCHOOL FOR TEACHERS

Prizes and Medals

His Excellency the Governor-General of Canada gives a bronze medal to the student who passes the best final examination in the Art of Teaching, whether in the Elementary Class, the Kindergarten Class, or the Intermediate Class.

His Honour the Lieutenant-Governor of the Province of Quebec gives annually a silver medal and a bronze medal. These medals are awarded to the students who take the highest standing in mathematics in the Intermediate and Elementary Classes respectively.

The Prince of Wales medal will be given to the teacher-in-training who takes the highest aggregate of marks in the Intermediate Class.

The Superintendent of Education gives annually a medal to the teacher-in-training who stands second in the Intermediate Class. He also gives a prize in books to the student who ranks highest in French.

The J. C. Wilson prize was provided by bequest of $1800.00, of the late J. C. Wilson. The proceeds of the bequest for one year will be given to the teacher-in-training who takes the highest aggregate of marks in the Elementary Class.

Le Comité de l'Alliance Française de Montréal offers a silver medal in the Intermediate Class, and a bronze medal in the Elementary Class, to the English-speaking student who in each class takes the highest marks in French.

The Bishop of Montreal gives annually two prizes in books, as follows: To the students in the Intermediate and Elementary Classes, who take the highest standing in Scripture.

The Association of Protestant Women Teachers of Montreal gives annually a prize to the student of the Intermediate Class who takes the highest standing in School Management and Principles and History of Education.

The Dr John L. Todd Gymnastic Medals for Women. See page 983.

The Janet Morison Robb Bursary for Women. See 982.

Milton L. Hersey, M.A.Sc., LL.D., a member of the Council of Education, Que., has established, by an endowment of $250.00, a prize in the Intermediate Class, and also in the Elementary Class; to the teacher-in-training who takes the highest standing during the year in Nature Study and Elementary Agriculture.

The Honourable Jacob Nicol, K.C., M.L.C., D.C.L., a member of the Council of Education, Que., gives a prize in books to the teacher-in-training of the Elementary Class who takes the second highest aggregate of marks.

The Outremont Protestant Teachers' Association gives annually a prize to be awarded to the student in the Elementary Class who takes the highest standing in School Management and Principles of Education.

"The Gardner Kneeland Memorial Prize," was established by an endowment of $200.00 by the late Professor A. W. Kneeland, M.A., B.C.L., in memory of his father. The proceeds of the endowment for one year is awarded to the student who ranks highest in English.

The Frances Willard Women's Christian Temperance Union, Westmount, Que., gives annually a prize of ten dollars to the student who takes the highest standing in the subject of Physiology and Hygiene.

A. Kirk Cameron, a member of the Council of Education, Que., gives annually a prize of ten dollars to the student who takes the highest standing in Primary Methods.

"The Dr. S. P. Robins Memorial Prize," was established by an endowment of $500.00, by Miss Lilian B. Robins, B.A., former lecturer in Mathematics, School for Teachers, Macdonald College, in memory of her father, who was first Professor of Mathematics, 1857 and, later, Principal of McGill Normal School, Montreal, until 1907. The proceeds of the endowment for one year will be awarded to the student who obtains a diploma, and is the most deserving student from the point of view of personality, professional attainments, and home circumstances.

NOTE:—Prizes are awarded only to students who obtain diplomas in the specified class.

Sarah Emma Hill Scholarship

The Sarah Emma Hill Scholarship, endowed by the late Mrs. Sarah Emma Hill, of Stanstead, Que., of the present value of about $100.00, will be awarded each year to a student in the School for Teachers "where assistance is required,—this money to be used by the Trustees of Macdonald College according to their best judgment."

Candidates for this scholarship are requested to make written application to the Dean of the School for Teachers, on or before September 30th, giving full particulars of the grounds upon which their applications are based, and to provide letters supporting their claims from two responsible persons.

In making the award, consideration will be given to scholarship and professional ability.

Ella Bryson Scholarship

This scholarship was bequeathed by the late Miss Ella Bryson of Fort Coulonge, Que., to the Women's Institute of Fort Coulonge, the proceeds of which are to be used as a scholarship at Macdonald College for a student from the Fort Coulonge Protestant School taking a course in the School for Teachers. Candidates for this Scholarship are requested to make application to the Dean of the School for Teachers on or before September 30th each year, and must be supported by recommendation from the Women's Institute of Fort Coulonge.

I. O. D. E. Bursary

The Municipal Chapter of Montreal Imperial Order Daughters of the Empire awards annually a bursary of $350.00 in the School for Teachers. This bursary is open to all girls of the High Schools in the municipality of Montreal and vicinity, including Lachine, Longueuil and St. Lambert, and will be awarded by a committee of selection chosen by the Order. Application forms can be obtained from the Principals of the High Schools concerned, or from the Educational Secretary of the Municipal Chapter of Montreal Imperial Order Daughters of the Empire—Mrs. F. M. Stevens, 493 Argyle Avenue, Westmount, Que.

OPEN TO ALL WOMEN STUDENTS

The Janet Morison Robb Bursary for Women was established, by an endowment of $2,000.00, by the late Honourable James A. Robb, formerly Member of Parliament for Chateauguay-Huntingdon and Minister of Finance, Canada, in memory of his decesased daughter, Janet Morison Robb, wife of Hugh Harvie Donald. The annual bursary will be the proceeds of the endowment for one year.

Preference will be given to women students resident in either of the counties of Chateauguay-Huntingdon, or Beauharnois, who are daughters of widowed mothers of limited or moderate means, or daughters of widowers in similar financial circumstances, or daughters of disabled Canadian soldiers who have seen active service.

Candidates for this bursary are requested to make written application, addressed to the Secretary, Macdonald College, Que., *on or before 15th April*, giving full particulars of the grounds upon which their applications are based, and to provide letters from two responsible persons in support of their claims.

Dr. John L. Todd Gymnastic Shield:—Donated by Dr. Todd for annual intersection gymnastic competition.

Dr. John L. Todd Basketball Trophy:—Donated by Dr. Todd for annual intersection basketball competition.

Dr. John L. Todd Gymnastic Medals:—Four medals—gold, silver, bronze, and nickle, donated annually by Dr. Todd for annual individual gymnastic competition.

1913-14 Baseball Cup:—Donated by the Girls' Athletic Association, 1913-14, for annual intersection base-ball competition.

Lady Constance Stewart-Richardson Swimming Cups for General Excellence and General Proficiency in Swimming and Diving:—Donated by Lady Constance Stewart-Richardson for annual individual competition.

The Badminton Challenge Cup:—Donated by the Girls' Athletic Association, 1928-29, for annual individual competition.

NOTE:—Only students taking a full year's course at the College are eligible to compete for the swimming cups, gymnastic medals and the badminton cup.

THE MACDONALD COLLEGE LIBRARY

The library and reading room are centrally located in the Main Building, occupying the ground floor of an annex leading off the main hall. Seventy-six readers can be accommodated in the reading room; and in a series of alcoves there are reference works and text-books on the work of the various departments.

The present stack-room has accommodation for about 25,000 volumes, and the choice of books has been directed towards bringing together the best of modern literature on subjects of the curriculum of the College.

The Walter M. Stewart Collection includes biography, history, travel, science, etc. This collection has been purchased with sums of money given by Walter M. Stewart, of Montreal.

EXTENSION SERVICE IN THE FACULTY OF AGRICULTURE

AGRICULTURE

DEPARTMENTAL SERVICES.—The services of the various departments of Macdonald College are always available for the advancement of the agricultural and home interests of the Province of Quebec. Personal interviews at the College and correspondence are invited.

JUDGES, SPEAKERS, EDUCATIONAL EXHIBITS.—Macdonald College, upon request, and when convenient arrangements can be made, will supply judges for exhibitions and speakers for meetings held under the auspices of agricultural societies, farmers' clubs, women's institutes, livestock, poultry and dairy associations, seed growing and horticultural societies and kindred organizations and, in some cases, will provide educational exhibits.

VISITORS TO THE COLLEGE FROM THE FARMING COMMUNITY OF QUEBEC are always welcome, from 9 a.m. until 5 p.m., excepting on Sundays, Saturday afternoons, and public holidays.

FARMERS' EXCURSIONS TO THE COLLEGE.—Excursions organized by agricultural societies, farmers' clubs, and similar bodies, are cordially invited to the College in the month of June to inspect the work in progress in the various departments, the main farm, field crops, orchards and vegetable gardens, the greenhouses, the poultry plant, the dairy, and the scientific laboratories, to see for themselves the experimental and demonstration work and to ask questions in regard thereto. An opportunity is also given to inspect the student residences, the dining-room, the gymnasia, and other parts of the buildings, and thereby to understand to some extent the conditions of student life at the College.

When arrangements are made in time, organized excursions will be provided at a nominal charge with a luncheon of sandwiches, bread and butter, cheese, and hot tea; or, if preferred, excursionists may bring their own lunch baskets, the College providing tea. In order to provide for the convenience and comfort of such excursionists, advice should be sent in advance as to the hours of arrival at and departure from the College, and as to the number of excursionists to be expected. Address:—The Dean of the Faculty of Agriculture, Macdonald College, Que.

SPECIMENS FOR EXAMINATION.—Please note that plants, seeds, insects, and similar specimens sent to the College for identification or examination, should be prepaid if sent by express, and attached thereto should be a tag containing the name and the address of the sender, and full particulars of the material sent. Parcels sent by parcel post should also be similarly tagged, in order that the material may be submitted to the department suited to make the examination.

HOUSEHOLD SCIENCE

Questions relating to household subjects will be answered.

Address:—The Director of the School of Household Science, Macdonald College, Que.

THE UNIVERSITY LIBRARY

G. R. Lomer, M.A., Ph.D., University Librarian

The University Library, which is under the general management of a Committee of Senate, includes the Redpath Library (Blackader Library of Architecture, Blacker Library of Zoology, and Wood Library of Ornithology), the Medical Library, Osler Library, Baillie Library of Chemistry, Engineering Library, Law Library, Physics Library, the Royal Victoria College Library, and the Carnegie Library.

The several libraries of the University now contain over 450,000 volumes and 45,000 pamphlets, considerable collections of maps and photographs, and a number of the rarer and more costly monographs and serials which are indispensable for purposes of research. The Library now receives over 2,900 periodicals, Government publications and transactions of various literary and scientific societies.

Among the special collections possessed by the Redpath Library may be mentioned the Mendelssohn Choir Memorial Collection of works on Music, the T. D. King Collection of Shakesperiana, the Redpath Historical Collection, and the Collection of Canadiana.

The Blackader Library of Architecture has been established in honour of Captain Gordon Home Blackader, B.Arch. (McGill). The Wood Library of Ornithology was presented by Colonel Casey A. Wood, M.D., LL.D., as a special research collection and reference library. The Blacker Library of Zoology, presented by Robert Roe Blacker and Nellie Canfield Blacker, is a comprehensive reference library on this special subject. In addition to standard works, it includes a number of monographs and an extensive collection of reports of scientific voyages and periodicals. It is supplemented by the Lyman Collection of books on Entomology. The Faculty of Medicine (including the Bibliotheca Osleriana), and the Royal Victoria College maintain libraries in their respective buildings; and there are Departmental Libraries in Engineering, Chemistry, Physics and Botany. The Libraries of the Faulty of Law and the School of Commerce were installed, in 1943, in Purvis Hall.

The Travelling Libraries, now at Macdonald College, provide extramural library service at a moderate fee. With the Library is affiliated the University Book Club, which supplies its members with standard, important and recent publications and makes a substantial annual contribution of books to the Library.

The Library maintains a museum, open to the public, with a permanent exhibition illustrating the development of the Book Arts, and numerous temporary exhibits are shown at the entrance and in the Gallery of the Reading Room.

UNIVERSITY MUSEUMS

1. Peter Redpath Museum.

The Peter Redpath Museum, a dignified building in the Neo-Greek style, situated between the University Library and the Arts Building, was erected by the donor whose name it bears and was handed over to the University in 1882, the architects being Hutchison and Steele. It is the only building in the University solely designed for museum purposes. It contains, on three floors, a great variety of museum material, the most important collections being the paleontological, the mineralogical, and the zoological, and a condensed exhibit of economic geology. Curator, T. H. Clark; Assistant Curator, Alice E. Johannsen; Associate Curator, J. D. Cleghorn, (on war service).

2. McCord National Museum.

The McCord National Museum is housed in a building adjacent to the campus, on the north side of Sherbrooke Street. Eleven rooms, the hall and the passages are occupied by the collections, which consist of articles illustrating the history and social life of Canada, the bulk of which were presented to the University in 1919 by David Ross McCord, Honorary Curator until his death. Subject to certain life interests, he bequeathed the major part of his estate to the University "as an Endowment Fund for the maintenance and development of the McCord National Museum." The museum is temporarily closed. Acting Curator, T. H. Clark; Assistant Curator, Alice E. Johannsen.

3. Library Museum.

The Library Museum is housed in a toplighted upper floor of the south wing of the Redpath Library. It contains in table and wall cases a series of exhibits (inscribed clay tablets, papyri, manuscripts and printed books) illustrating the history of writing and of the book from the first millennium B.C. (in Egypt and Babylonia) onwards. Museum talks are given free to students, school children and visitors. In the gallery above the Reading Room, special exhibits and groups of objects, books, and pictures of general interest are set out and are changed from time to time. An alcove facing the entrance of the Library is utilized as a display case for weekly exhibits of items of topical interest. Curator, G. R. Lomer.

4. Ethnological Museum.

This at present occupies the ground floor of the Medical Museum in the Medical Building. It contains the important ethnological material removed from the Peter Redpath Museum, together with ethnological material from other sources, mainly Canadian Indian. There is in addi-

tion the Garstang loan collection, illustrative of Egyptian culture through four millennia. The arrangement of the ethnological material is geographic. Acting Curator, T. H. Clark; Assistant Curator, Alice E. Johannsen.

5. In addition to the above there are other collections and exhibits of a specialized nature, ordinarily open only to students but to which access may be gained by application to the Curator concerned. These include the Anatomical, Medical and Pathological Museums, the Museum of Hygiene, the Rutherford Collection of Experimental Physics, the Botanical, Zoological, and Architectural collections, and the Peterson Coin collection. At Macdonald College there is a teaching collection containing an herbarium, a collection of insects, and some other exhibits related to Canadian agriculture.

MILITARY TRAINING

1. Under the regulations of the Canadian Government all male students at the University are required to take military training if they are physically fit.
2. This training may be taken with the Canadian Officers' Training Corps, the University Air Training Corps, the University Naval Training Division, the Royal Canadian Army Medical Corps (for upper year medical students only), or the Canadian Dental Corps (for upper year students in Dentistry only). Students are not permitted to train with outside units unless they were with such units for at least a year before coming to the University.
3. Applications for permission to continue training with outside units or for exemption for any other reason from the military training provided by the University must be made in writing to the Secretary of the University Committee on War Service Training.
Further details are published at the beginning of the session.

CANADIAN OFFICERS' TRAINING CORPS

McGILL UNIVERSITY CONTINGENT

Honorary Colonel: COL. A. A. MAGEE, D.S.O., V.D., A.D.C.

Honorary Lieutenant-Colonel: LIEUT.-COL. T. S. MORRISEY, D.S.O.

Commanding Officer: LIEUT.-COL. J. M. MORRIS, M.C., V.D.

UNIVERSITY AIR TRAINING CORPS

Commanding Officer: SQUADRON LEADER C. H. CARRUTHERS.

Administrative Officer: FLIGHT LIEUT. G. A. FIRBY.

UNIVERSITY NAVAL TRAINING DIVISION

Commanding Officer: LT.-COL. V. C. WYNNE-EDWARDS.

WAR SERVICE PROGRAM FOR WOMEN

According to a regulation of Senate, all women undergraduates are required to devote four hours per week to training within the War Service Program.

All students new to the University must enrol for the first year basic course. Students who have completed the first year course may choose from the several electives offered in the second, third and fourth years. Details of the courses may be obtained at registration time.

EXEMPTION: Exemption from a part or all of the Program may be granted for medical reasons. Only if the candidate has a very strong claim to consideration is exemption granted on other grounds. Applications must be made in writing to the Exemptions Committee and addressed to the Chairman of the War Service Program for Women.

REGISTRATION: Registration for War Service Program courses is made at the same time as for academic courses.

REGISTRATION

1942-43

Degree Students

	Men	Women	Total	
Faculty of Arts and Science:				
Arts Division:				
First Year	23	125	148	
Second Year	59	99	158	
Third Year	48	99	147	
Fourth Year	29	66	95	
Totals	159	389	548	
Cancellations 11				
Science Division:				
First Year	270	65	335	
Second Year	120	48	168	
Third Year	77	36	113	
Fourth Year	33	23	56	
Totals	500	172	672	
Cancellations 51				
Commerce Division:				
First Year	4	7	48	
Second Year	25	6	31	
Third Year	31	5	36	
Fourth Year	17	2	19	
Totals	114	20	134	
Cancellations 17				
Totals for the Faculty	773	581	1,354	1,354
Faculty of Engineering:				
Engineering Division:				
First Year	190	1	191	
Second Year	110	...	110	
Third Year	115	...	115	
Fourth Year	99	...	99	
Totals	514	1	515	
Cancellations 37				
Architecture Division:				
First Year	14	5	19	
Second Year	3	3	6	
Third Year	9	3	12	
Fourth Year	...	1	1	
Fifth Year	3	1	4	
Totals	29	13	42	
Cancellations 3				
Totals for the Faculty	543	14	557	557

	Men	Women	Total	
Faculty of Medicine:				
First Year	107	10	117	
Second Year	98	7	105	
Third Year	96	6	102	
Fourth Year	94	2	96	
Totals	395	25	420	420
Cancellations 13				
Faculty of Dentistry:				
First Year	22	...	22	
Second Year	17	...	17	
Third Year	14	...	14	
Fourth Year	14	1	15	
Totals	67	1	68	68
Cancellations 0				
Faculty of Law:				
First Year	11	2	13	
Second Year	12	1	13	
Third Year	7	...	7	
Totals	30	3	33	33
Cancellations 2				
Faculty of Graduate Studies and Research	146	44	190	190
Cancellations 5				
School of Household Science:				
First Year	...	31	31	
Second Year	...	23	23	
Third Year	...	26	26	
Fourth Year	...	15	15	
Totals	...	95	95	95
Cancellations 0				
Faculty of Music	4	4	8	8
Library School	2	9	11	11
Faculty of Agriculture:				
First Year	29	3	32	
Second Year	40	1	41	
Third Year	23	2	25	
Fourth Year	11	1	12	
Totals	103	7	110	110
Cancellations 4				
TOTAL DEGREE STUDENTS	2,063	783	2,846	2,846

Diploma Students

	Men	Women	Total	
Faculty of Agriculture:				
First Year	11	...	11	
Second Year	2	...	2	
Third Year	...	...	...	
Totals	13	...	13	13
Cancellations 1				
Faculty of Medicine:				
Diploma of Public Health	2	...	2	2
Faculty of Music:				
Licentiate Course	8	23	31	31
School for Graduate Nurses	...	57	57	57
Cancellations 0				
School of Physical Education:				
First Year	...	11	11	
Second Year	...	11	11	
Graduate Year	...	...	...	
Totals	...	22	22	22
School for Teachers:				
Elementary Class	1	37	38	
Intermediate Class	3	11	14	
Kindergarten Class	...	1	1	
Totals	4	49	53	53
Cancellations 4				
Total Diploma Students	27	151	178	178

Partial Students

Total Partial Students	129	241	370	370
Cancellations 10				
TOTALS IN UNIVERSITY COURSES	2,219	1,175	3,394	3,394

Registered in more than one Faculty. 16
Total Cancellations 153

FACULTY OF ARTS AND SCIENCE

SUMMER SESSION—1943

	Men	Women	Total
Arts Division	8	14	22
Science Division	52	16	68
Engineering	3	...	3
	63	30	93

OTHER COURSES

Evening Accountancy Diploma Courses	443	116	559
Extension Lectures	...	...	1,292
French Summer School	23	63	86
Summer School for Teachers—Macdonald College	12	148	160

McGILL UNIVERSITY

MONTREAL

DIRECTORY OF STUDENTS

1942 - 1943

TELEPHONE NUMBERS

Athletics Manager,
Sir Arthur Currie Memorial Gymnasium.....PL. 4488
Canadian Officers Training Corps,
Sir Arthur Currie Memorial Armoury.....BE. 3304
Conservatorium of Music,
677 Sherbrooke Street, West.....MA. 2080
Conservatorium of Music,
Secretary's Office.....MA. 2606
Dept. of Physical Education, (Men),
Sir Arthur Currie Memorial Gymnasium.....PL. 1881
Dept. of Physical Education, (Women),
555 Sherbrooke Street West.....MA. 9176
Diocesan College,
3474 University Street.....MA. 4902
Divinity Hall,
3510 University Street.....MA. 2646
Douglas Hall,
3851 University Street.....BE. 2885
Faculty Club,
3450 McTavish Street.....PL. 8789
Football Tickets, Sir Arthur Currie Memorial Gymnasium.....PL. 4489
Graduates' Society,
3466 University Street.....MA. 2664
International Labour Office,
3480 University Street.....PL. 2507
Law Students,
McGill University.....BE. 1271
McGill Daily,
690 Sherbrooke Street West.....LA. 2244
McGill Daily,
Editor-in-Chief, Raymond Ayoub.....LA. 2244
(After 10 p.m. and on Sundays and Holidays).....LA. 8366
McGill University.....MA. 9181
McGill Union,
690 Sherbrooke Street West.....LA. 2244
President, William Munroe.....LA. 2244
(After 10 p.m. and on Sundays and Holidays).....LA. 7872
Secretary, Robert MacIntosh.....LA. 2244
(After 10 p.m. and on Sundays and Holidays).....LA. 8955
Montreal General Hospital,
Dorchester Street East.....PL. 7751
Players' Club Office,
690 Sherbrooke Street West.....LA. 2244
Presbyterian College,
3485 McTavish Street.....PL. 1649
Rink and Tennis Courts,
McTavish Street.....MA. 2705
Royal Victoria College,
555 Sherbrooke Street West.....MA. 9176
Royal Victoria Hospital,
Pine Avenue West.....PL. 1251
School of Nursing,
3466 University Street.....MA. 9181
School for Teachers,
772 Sherbrooke Street West.....HA. 6268
Student Christian Movement,
3574 University Street.....PL. 1156
Students' Employment Bureau,
690 Sherbrooke Street West.....LA. 2244
Students' Executive Council,
690 Sherbrooke Street West.....LA. 2244
President, R. Stewart Willis.....LA. 2244
(After 10 p.m. and on Sundays and Holidays)..... LA. 2247 or DE. 2270
University Co-operative Residence,
3609 University Street.....LA. 6307
University Medical Officer,
Dr. F. G. Pedley (Residence).....AT. 6416
Macdonald College:
Men's Residence.....Ste. Anne 407,810
Women's Residence.....Ste. Anne 806,830

MEN'S FRATERNITIES

Alpha Delta Phi, 3478 McTavish Street.....PL 7412
Delta Kappa Epsilon, 3653 University Street.....PL 2073
Delta Sigma Phi, 3592 University Street.....PL 2435
Delta Upsilon, 3434 McTavish Street.....PL 6773
Kappa Alpha, 3605 University Street.....MA 3101
Kappa Rho Tau, 1210 Pine Avenue West.....HA 0098
Nu Sigma Nu, 545 Pine Avenue West.....MA 1545
Phi Chi, 3615 University Street.....LA 4392
Phi Delta Theta, 3581 University Street.....MA 3842
Phi Kappa Pi, 3647 University Street.....MA 2806
Psi Upsilon, 3429 Peel Street.....PL 7385
Sigma Chi, 3437 Peel Street.....PL 1674
Theta Delta Chi, 432 Strathcona Avenue, Westmount.....FI 7347
Theta Kappa Psi, 3483 Peel Street.....LA 0643
Zeta Beta Tau, 3422 Stanley Street.....HA 3840
Zeta Psi, 3637 University Street.....MA 1824

WOMEN'S FRATERNITIES

Alpha Gamma Delta, 646 Sherbrooke Street, West.....PL 5601
Alpha Omicron Pi, 3560 University Street.....LA 8318
Delta Gamma, 900 Sherbrooke Street, West, (Apt.14).....PL 6943
Delta Phi Epsilon, 795 Davaar Avenue.....DO 8122
Gamma Phi Beta, 3601 University Street.....MA 8740
Kappa Alpha Theta, 3570 University Street.....MA 4068
Kappa Kappa Gamma, 768 Sherbrooke Street.....HA 7911
Sigma Delta Tau, 481 Strathcona Avenue.....WE 4315

DIRECTORY OF STUDENTS

OFFICERS 1942 - 1943

STUDENTS' SOCIETY OF McGILL UNIVERSITY

President: R. STEWART WILLIS

Vice-President: ROSS A. RITCHIE

Secretary-Treasurer: G. H. FLETCHER

WOMEN'S UNION OF McGILL UNIVERSITY

President: RUTH L. HILL

Vice-President: JEAN C. MITCHELL

Secretary: MARJORIE CROSS

Treasurer: MARGERY MACKENZIE

ARTS AND SCIENCE

First Year	President	GEORGE MILNE
	Vice-President	RALPH FARRELL
	Secretary-Treasurer	EUGENIO LARRABURE
Second Year	President	JAMES DARRAGH
	Vice-President	
	Secretary-Treasurer	
Third Year	President	LESLIE DARRAGH
	Vice-President	
	Secretary-Treasurer	
Fourth Year	President	EARL COREY
	Vice-President	GEORGE McCOLM
	Secretary-Treasurer	R. ROSS MACDONALD

COMMERCE

First Year	President	GEORGE A. McCAMMON
	Vice-President	BARBARA ANNE SMITH
	Secretary-Treasurer	ELIZABETH S. GENTLES
Second Year	President	BERTRAM BARROW
	Vice-President	MICHAEL TOWNSEND
	Secretary-Treasurer	C. ELIZABETH McNAB
Third Year	President	JACK A. RUSSELL
	Vice-President	VAUGHAN MARPLES
	Secretary-Treasurer	IRMA PATTERSON
Fourth Year	President	HARVEY BRAZER
	Vice-President	AUGUSTE MALTAIS
	Secretary-Treasurer	MARY SIDORCHUK

DENTISTRY

First Year	President	M. H. SMALL
	Vice-President	JACK EARLE
	Secretary-Treasurer	HAROLD ROSENBAUM
Second Year	President	C. L. CHURCH
	Vice-President	STEADMAN VAN BUREN
	Secretary-Treasurer	M. E. BOURNE

Dentistry-(Continued)

Third Year	President	CHARLES ASSELIN
	Vice-President	SIDNEY SILVER
	Secretary-Treasurer	ROBERT GRAVES
Fourth Year	President	C. H. DUNDASS
	Vice-President	JOSEPH M. A. SALTIBUS
	Secretary-Treasurer	FRANK L. BURNS

ENGINEERING

First Year	President	EDWARD G. BLAKE
	Vice-President	FRANK F. J. ROCHE
	Secretary-Treasurer	JOHN R. SKELTON
Second Year	President	JOHN B. CARRUTHERS
	Vice-President	J. KEN PARK
	Secretary-Treasurer	ROBERT D. COLLIER
Third Year	President	WILLIAM B. RICE
	Vice-President	J. H. MACLURE
	Secretary-Treasurer	ALAN T. FARMER
Fourth Year	President	G. E. BACKER
	Vice-President	J. P. OGILVIE
	Secretary-Treasurer	G. G. HATCH

GRADUATE STUDENTS' ASSOCIATION

President	WALTER ASHFORD
Vice-President	L. THOMPSON
Secretary	THELMA STEVENS
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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
ABBEY, Marjorie MacD.	B.A. 2	45 Parkside Ave., Montreal West	DE 9515
ABOUD, Daniel	B.Sc.3	Douglas Hall, Montreal	BE 2885
		592 Sixth Ave., Grand'Mere,Que.	
ABOUD, Joseph	B.Com.3	2171 St.Catherine St.W.,Montreal	FI 8201
		56 Seventh St.,Shawinigan Falls,Que.	
ABRAMOWITZ, David L.	Med. 4	507 Argyle Ave., Westmount	WE 4622
ADAMS, Archie L.	B.Sc.1	785 St. Paul, Three Rivers, Que.	
ADAMS, James L.	B.Com.3	1280 Bernard Ave., Apt.9	DO 2124
ADAMS, James R.	B.Com.1	4333 Westmount Ave., Westmount	WI 5959
ADAMS, John R.	Med. 4	1450 Mountain St., Montreal.	
		925 Greenwood Ave.,Wilmette,Illinois.	
ADAMS, Samuel T.	Med. 3	4333 Westmount Ave., Westmount	WI 5959
ADELES, Rosalind	B.Com.1	5714 Darlington Ave.,No.9,Montreal	AT.1967
ADELSON, Edward	B.Sc. (Agr) 2	Macdonald College, P.Q.	Ste.A.407,810
		738 Querbes Ave., Outremont, Que.	
ADELSTEIN,Peter	B.Eng.1	4210 Marcil Ave., N. D. G.	DE 5657
ADILMAN, Mona E.	B.A. 2	5156 N.D.G. Ave., N. D. G.	DE 7884
AFFLECK, Barbara L.	B.A. 4	2106 Claremont Ave., Apt.42,Mont-real	EL 2337
AFFLECK, Raymond T.	B.Arch. 1	2106 Claremont Ave., Apt.42,Mont-real	EL 2337
AGRANOVITCH, Edna	B.A. 3	4400 Rivard St. Montreal	PL 3793
AIKINS, James P.	Med. 1	3847 Wilson Ave., Montreal	WA 3897
AIKINS, Joseph A.	B.Eng. 1	3847 Wilson Ave., Montreal	WA 3897
AIKMAN, Audrey M.	B.A. 4	1488 Crescent St., Montreal	HA 8705
		% Barclays Bank. St. Kitts, B.W.I.	
AIKMAN, Stuart P.	B.Sc.2	1488 Crescent St., Montreal	HA 8705
AIRD, John P.	B.A. 2	456 Strathcona Ave	WE 4531
AITKEN, Joan W.	B.Sc.4	Royal Victoria College, Montreal	MA 9176
		Devonshire, Bermuda.	
ALARIE,Joseph M. Albert	Grad.Sch	55 Montée SteMarie, Ste Anne de Bellevue.	
		Ste Anne de la Pocatiere,Kam.Co.,P.Q.	
ALBERT, Benjamin	B.A. 2	769 Davaar Ave., Outremont	CA 4371
ALBERT, Harold S.	Med. 3	460 Elm Ave., Westmount	FI 4237
ALBERT, Henry L.	B. Eng. 3	3415 University St., Montreal	MA 2090
		137 Victoria St., Edmundston, N.B.	
ALBERT, Leonard Paul	B.Sc.3	4130 Clarke St.	BE 3629
ALBERT, Louis A.	B.Sc.1	846 Wiseman Ave., Outremont	CA 6021
ALEXANDER, Audrey L.	B.Sc.2	5156 Sherbrooke St.W.Apt.7,Mont-real	EL 8688
ALEXANDER, Janet A.	B.Sc.2	209 Strathearn Ave.,Montreal West	DE 8060
ALEXANDER, Leo J. A.	B.Sc.2	65 Sherbrooke St. West, Montreal	HA 5689
		Noranda, Que.	
ALGUIRE, John Alexander D.	B.Sc.3	Douglas Hall	BE 2885
		107 Sydney St., Cornwall, Ont.	
ALI, Rosie	B.Sc.1	3585 St. Famille St., Montreal	MA 5514
		23 Dundonald St., Port of Spain, Trinidad, B.W.I.	
ALLEN, Alex. David	B.Eng.1	Douglas Hall	BE 2885
		Indian Point, Burlington, Ont.	
ALLEN, Donald C.	B.Sc. (Agr) 1	Macdonald College, P.Q.	Ste.A.407,810
		214 Westminster Ave.,Montreal West.	
ALLEN, Francis T.	B.A. 2	4545 Earnscliffe Ave., Montreal	EL 1917
ALLEN, Heather	Arts P.	4324 Sherbrooke St.W., Montreal	FI 6907
ALLEN, James L.	B.Eng.4	3579 Shuter St., Montreal	LA 2639
		McConnell, Manitoba.	
ALLEN, Jean I.	B.Sc.2	4445 Earnscliffe Ave., Montreal	DE 2125

NAME	FACULTY AND YEAR	ADDRESS	TEl. NO.

Where two addresses are given, the second is the home address

ALLEN, Margaret B.	B.A.2.	Royal Victoria College	MA 9176
		55 Spring St.,Summerside,P.E.I.	
ALLEN, William G.	B.Eng.3.	25 Fenwick Ave.,Montreal West	EL 7227
ALLEY, Armine Marie	Grad.Sch.	3454 Peel St., Montreal	LA 6766
		74 St. George St., Toronto.	
ALLISON, Joan J.	B.A.3.	3781 Vendome Ave., Montreal	DE 8993
ALVAREZ-CALDERON, Arturo	B.Eng.3.	3605 University St., Montreal	MA 3101
		157 Plaza San Martin,Lima,Peru.	
AMI, Robert H.B.	B.Sc.1.	133 Graham Blvd.,Town of Mount Royal	AT 2553
AMMON, Robert Edgar	Med.1.	439 Sherbrooke St. West	MA 2006
		11 St.Clair Ave., Port of Spain, Trinidad, B.W.I.	
AMOS, Mary Suzette	Arts P.	2177 Lincoln Ave.,Apt.7,Montreal.	WI 2079
ANDERSON, James D.	B.Eng.4.	3525 University St., Montreal	MA 4352
		Lunenburg, Nova Scotia.	
ANDERSON, Joan A.	Phys. Ed. 1.	Royal Victoria College	MA 9176
		Fraser's Point, Dundee, P.Q.	
ANDERSON, Joan C.	B.Sc. 4.	5021 Glencairn Ave., Montreal	EL 6360
ANDREAE, Wolfgang A.	Grad. Sch.	Macdonald College,Box 212,Que.	St. Anne 407,810
ANDREWS, Dixie J.	B.A.2.	Royal Victoria College,Montreal.	MA 9176
		901 Roberts St.,Niagara Falls,Ont.	
ANDREWS, J. Eldon	Theol. 2.	3485 McTavish St., Montreal	PL 1649
		Bell's Corner, Ont.	
ANDREWS, John R. T.	B.Eng. 1.	629 Prince Arthur St.W,Montreal.	MA 0739
		79 Powell Ave., Ottawa, Ont.	
ANGEL, Henry	B.Eng. 1.	2057 Maplewood Ave., Montreal	AT 4558
ANGIER, L. Cecilia	B.A. 4.	4950 Coronet Ave.,Apt.16, Montreal	EX 2116
		"Cavello Heights",Somerset,Bermuda	
ANGLIN, Walter W.	Dent. 2.	3647 University St., Montreal	MA 2806
		Hampton, New Brunswick.	
ANGROVE, Donald J.	B.Sc. (Agr) 1.	Ste Anne de Bellevue,Que.	Ste Anne 407,810
ANGUS, Catherine S.	B.H.S. 1.	Macdonald College,Que.	Ste Anne 806,830
		2650 Bowker Ave., Victoria,B.C.	
APPLEBAUM, Bertram H.	B.A. 3.	458 Elm Ave., Westmount	FI 7962
APPLEBAUM, Leonard Willis.	B.A. 2.	458 Elm Ave., Westmount	FI 7962
ARBESS, Rosalie H.	B.A. 3.	815 Dollard Ave., Outremont	DO 6962
ARCHAMBAULT, Bernard J.	B.Sc.2.	5614 Canterbury Ave., Montreal	AT 9932
ARCHAMBAULT, Leo A.	B.Eng.4.	5257 Delorimier Ave., Montreal	CH 7480
ARCHER, Hazel P.	B.A. 1.	4481 Madison Avenue, N. D. G.	EL 5455
		1 Studley Avenue, Halifax, N.S.	
ARCHER, Robert	B.Sc. 1.	1506 Mackay Street, Montreal	WI 5678
		330 Grande Allée, Quebec, Que.	
ARCHIBALD, Rupert D.	B.Eng. 1.	3525 University St., Montreal	MA 4352
		44 Picton St., Port-of-Spain, Trinidad.	
ARCHIBALD, Vernon T.	Med. 3.	3561 Lorne Ave., Montreal	MA 9541
		2526 Tulare Ave.,Richmond,Calif.	
ARGUE, Thomas A.	B.Eng. 1.	235 Melville Avenue, Westmount	WE 1297
ARMSTRONG, David M.	B.A. 3.	15 Willow Avenue, Westmount	EL 0636
ARMSTRONG, Douglas L.	B.Eng. 1.	4370 Beaconsfield Ave., N.D.G.	DE 9859
ARMSTRONG, John C.	Grad. Sch.	Macdonald College	Ste Anne 407,810
		Botha, Alta.	
ARMSTRONG, William B.	Med. 3.	3483 Peel Street, Montreal	LA 0643
		1215 - 11th Ave. N., Fargo,N.Dak.	
ARNOLD, W. Beverley	B.Eng.2.	3042 Trafalgar Ave., Montreal	FI 3435
ARONOFF,Alexander	B.Sc. 2.	4346 St. Urbain St., Montreal	BE 2995
ASCAH, Geoffrey M.	Med. 2.	3473 University St., Montreal	MA 4902
		306 Main Street, Farnham, Que.	
ASHDOWN, David S.	Med. 3.	Douglas Hall, Montreal	BE 2885
		"Barrule" Warwick E, Bermuda.	
ASHFORD, Walter R.	Grad. Sch.	2063 Stanley Street, Montreal	MA 9038
		3657 W 27th Avenue, Vancouver,B.C.	
ASHWORTH, Betty M.	B.A. 3.	4970 Cote des Neiges Road,Apt.5, Montreal	AT 8862

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
ASKONAS, B. Alice	B.Sc. 2	4864 Cote des Neiges Road,Montreal	AT 5962
ASNER, Howard	B.Eng.1	468 Argyle Avenue, Westmount	WE 3877
ASNER, Ruth Dorothy	B.A. 2	468 Argyle Avenue, Westmount	WE 3877
ASSALY, Joseph A.	B.Eng.1	1176 Sherbrooke St.W.,Montreal	MA 0650
		231 Main St., Lachute, Que.	
ASSALY, Raymond	B.Com.2	6357 St.Denis Street, Montreal	CR 9738
ASSELIN, Charles	Dent. 3	2501 Maplewood Ave., Outremont	AT 3851
ASSELSTINE, Harold S.	Med. 3	Douglas Hall, Montreal	BE 2885
		2105 Victoria Ave., Windsor, Ont.	
ATHANASIOU, Andrew	B.A. 2	4787 Notre Dame St.W.,Montreal	WE 5657
ATKINS, Edward A.	Agr.Dip.1	Macdonald College, Que..Ste.Anne	407,810
		Lagorgandiere,Portneuf Co., Que.	
ATKINSON, James T. N.	B.Eng. 3	2047 Union Avenue, Montreal	LA 3380
		401 N.Chestnut St., Westfield,N.J.	
AUBÉ, Louis A.	Med. 4	3608 Oxenden Avenue, Montreal	PL 1305
		Chatham, N.B.	
AUCLAIR, Lucien	Agr. P.	Macdonald College, Que..Ste.Anne	407,810
		St.Zotique, Soulanges Co.,Que.	
AUDET, Harold H.	Med. 1	3629 Oxenden Avenue, Montreal	MA 3385
		12 Barton St., Newburyport, Mass.	
AULT, Joyce E.	B.A. 2	4256 Wilson Ave., N. D. G.	DE 9436
AUSTIN, Garnet D.	B.Eng.1	243 Clarke Avenue, Westmount	FI 3316
AVERILL, Arthur J. F.	B.A. 3	3478 McTavish Street, Montreal	PL 7412
		1503 Rockland Ave., Victoria,B.C.	
AXELRAD, Arthur A.	B.Sc.2	5890 Durocher Ave., Montreal	DO 2709
AYOUB, Raymond	B.Sc.4	6848 Drolet Street, Montreal	CR 2879
BABBITT, Carol M.	B.A. 2	Royal Victoria College	MA 9176
		277 Main Street, Nashua, N.H.	
BABBITT, Ethel J.	B.A.3	Royal Victoria College	MA 9176
		277 Main St., Nashua, N.H.	
BABCOCK, Stirling Edwin	B.Eng. 3	1176 Sherbrooke St.W., Montreal	MA 0650
		Stirling Mine, Richmond Co., N.S.	
BACKER, George E.	B.Eng. 4	1472 Crescent St., Montreal	LA 5077
		Grand'mere, Que.	
BAGNALL, John	B.Eng. 1	3581 Durocher St.	HA 7778
		Windsor Mills, Que.	
BAILEY, Agnes E. A.	Teachers'(Elem.)	772 Sherbrooke St.W., Montreal	HA 6268
		Roy St., La Tuque, Que.	
BAILEY, Edward E.	B.Eng. 1	857 Melrose Avenue, Verdun	YO 3927
BAILEY, George S. D.	Med. 4	522 Sherbrooke St.W., Montreal	MA 4051
		122 Grande Allée, Quebec, Que.	
BAILLIE, Olga	B.Com. 1	Royal Victoria College	MA 9176
		107 Old Hope Road, Jamaica, B.W.I.	
BAILLIE, Sheila P.	Arch. 2	5851 Notre Dame de Grace Ave.,	
		N.D.G., Montreal	DE 0613
BAIRD, Barbara M.	B.H.S. 2	Macdonald College, Que...Ste.Anne	806,830
		5 Alexander St., Belleville, Ont.	
BAITTLE, Brahm	B.Sc. 4	12 Park Place, Apt.6, Westmount	WE 4176
BAKER, Donald B.	B.Eng. 4	3620 Durocher St., Montreal	MA 6724
		Summerside, P.E.I.	
BAKER, Edwin D.	Arch. 1	3605 University St.	MA 3101
		Sinclair Road,Cadboro Bay, Victoria, B.C.	
BAKER, Mary Edith	B.H.S. 2	Macdonald College,Que...Ste.Anne	806,830
		624 Carleton Ave., Westmount.	
BAKER, Maxwell Clifford	B.Eng. 4	548 Prince Arthur St.W.,Montreal	MA 7845
		Botwood, Newfoundland.	
BAKER, Samuel B.	Grad. Sch.	5391 Waverly Avenue, Montreal	CA 5609
BALFOUR, Richard J.	B.Eng. 1	4727 Fulton Avenue, Montreal	EX 1950
BALLANTYNE, Leila Edna	B.A. 1	3788 Vendome Ave., Montreal	EL 8211
BALLON, Edward M.	B.A. 2	1471 Crescent St., Montreal	MA 5578
BANNON, Charles R.	Med. 2	3581 University St., Montreal	MA 3842
		35 Dix Avenue, Glens Falls, N.Y.	
BARAGAR, Marie Louise	Med. 2	548 Prince Arthur St. W.,	
		Montreal	MA 7845
		738 McMillan Ave., Winnipeg, Man.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

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BARBER, Cora I.	Grad. Nurses	772 Sherbrooke St.W.,Montreal Wolseley, Sask.	HA 6268
BARBER, Evelyn E.	Grad. Sch.,Arts.P.	49 Granville Road, Hampstead 153 Leighton Ave.,Winnipeg, Man.	EL 9992
BARDSLEY, Leonard W.	B.Eng. 4	37 Dufferin Road, Hampstead. 243 Lancaster Ave.,West Saint John, N.B.	
BARG, Peter.	Med. 3	3626 St. Urbain St., Montreal Brooks, Alta.	HA 9828
BARK, Robert E.	B.Eng.1	35 Brock Ave.,S., Montreal West	DE 9297
BARKER, Barbara E. W.	Med. 3	3440 Walkley Avenue, Montreal.	DE 2591
BARKER, Clifford A.V.	Grad. Sch.	Macdonald College, Que...Ste.Anne 27A Maple Ave.,Ste.Anne de Bellevue, Que.	407,810 Ste Anne 2204
BARNES, Frances S.	B.A. 1	1554 Pine Ave. West, Montreal	FI 6746
BARR, R. Graham.	Theol. 3	3520 University St., Montreal.	
BARRETT, Francis D.	B.Eng. 1	10151 St.Charles Ave., Montreal	DO 5687
BARRETT, Francis James.	B.Eng. 3	3619 University St., Montreal. Riverside, Albert Co., N.B.	
BARRETT, George W. F.	B.Sc.1	440 Notre Dame St.,Lachine...Lachine	678 W
BARRETT, Patrick Francis.	B.Eng. 2	5542 Cote des Neiges Rd.,Montreal.	AT 4051
BARROW, Bertram G.	B.Com. 2	4542 Old Orchard Ave., Montreal	WA 4929
BARROW, F.A.R.	B.A. 3	3485 McTavish St., Montreal 12 Hankey St.,San Fernando,Trinidad.	PL 1649
BARRY, Elizabeth M.	Grad. Nurses	772 Sherbrooke St.West,Montreal 182 Princess St.,St.John, N.B.	MA 6268
BARRY, James G. T.	Arts P.	2235 Hampton Avenue, Montreal	WA 1843
BARRY, Rexford G.	B.A. 3	2168 Sherbrooke St.W., Montreal	FI 4551
BARSKY, Beverly.	B.A. 1	774 McEachran Ave., Outremont	CR 2290
BARSKY, Selma.	B.A. 1	897 Stuart Ave., Outremont	CR 1408
BARTER, Fern Lois.	Teachers (Elem.)	772 Sherbrooke St.West, Montreal Eastview Ave., Cookshire, Que.	HA 6268
BARTLETT, Robert F.	B.A. 2	6251 Notre Dame de Grace Ave.,NDG.	
BARTLEY, C. William.	Med. 4	Douglas Hall, Montreal The Cottage, Swanbourne,Bletchley, Bucks, Eng.	BE 2885
BARTSCH, C. Louise.	Grad. Nurses	3425 Ste. Famille St., Montreal 71 Sewell St., Saint John, N.B.	HA 2490
BARWICK, Donald C.	B.Sc. 1	2068 Sherbrooke St.W., Montreal	WE 4672
BARWICK, Joyce A.	B.Sc. 1	5 Kilburn Crescent, Hampstead	EL 1425
BASSETT, George F.	B.Sc. 2	732 Upper Lansdowne Ave.,Westmount	WA 2221
BASTEDO, Gordon E.	Theol.3	3485 McTavish Street, Montreal Woodstock, Ont.	PL 1649
BATES, John I.	Med. 2	1058 Sun Life Building, Montreal Chambly Basin, Que.	Chambly 175
BATTISTA, Arthur F.	Med. 2	Alexandra Hospital, Montreal. 9 Whitehead Ave., Cornwall, Ont.	
BAUDOUIN, Jacques H.	B.Eng. 4	1721 Lavoie Ave., Outremont.	
BAUER, Thomas W.	B.A. 3	4940 Coronet Ave.,Montreal	AT 6502
BAXTER, Dorothy.	Music P.	145 Ballantyne Ave.,Montreal West.	WA 4645
BAXTER, James Douglas.	B.Sc.3	Douglas Hall, Montreal c/o Royal Bank of Canada,St.John's, Newfoundland.	BE 2885
BAXTER, William J.	B.A. 2	5412 Bannantyne Ave., Verdun	YO 5482
BAYKAL, Orhan.	B.Eng. 2	1818 Sherbrooke St.W., Montreal Istanbul, Turkey.	FI 2185
BAYNE, J. Ronald D.	B.A. 3	3429 Peel Street, Montreal 6 Portland Ave., Sherbrooke, Que.	PL 7385
BAZERMAN, Abraham William.	Dent.3	3636 Henri Julien Street, Apt. 9, Montreal.	
BEAL, Robert S.	B.A. 3	333 Metcalfe Ave., Westmount	FI 7667
BEARDMORE, Harvey E.	Med. 2	Douglas Hall, Montreal 1616 Ouellette Ave., Windsor, Ont.	BE 2885
BEATON, John W.	B.Com.3	31 Thornhill Ave., Westmount	WE 4441
BEATON, Thomas Grady.	Agr.Dip.1	Macdonald College, Que... Ste.Anne Dixville, Que.	407,810
BEATON, William H.	B.Eng.2	3484 Westmore Ave., Montreal	DE 9219
BEATTY, Gibson.	B.A. 4	4951 Connaught Ave.,Montreal	DE 8319
BEATTY, Jane E.	B.A. 1	3484 King Edward Ave., Montreal	WA 2053

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address.			
BEATTY, Joyce W.	B.A. 1.	4951 Connaught Ave., Montreal.	DE 8319
BEAUBIEN, Jacques.	B.Com.3.	500 Pine Avenue,West,Montreal.	MA 6558
		231 College Ave., Richmond, Que.	
BEAUDRY, Jean R.	Grad.Sch.	514 Therrien Street, Montreal.	WI 9898
BEAULIEU, Gaston H.	B.Sc. (Agr.) 2.	Macdonald College, Que...Ste.Anne	407,810
		Lennoxville, Que.	
BEAUREGARD, Jules.	Law.1.	4090 Old Orchard Ave., N.D.G.	DE 7572
BEAUSEJOUR, Wilfrid P.	B.Sc.1.	4046 Oxford Avenue, N. D. G.	WA 2276
BECHARD, Roland S.	B.Sc.4.	7578 Boyer Street, Montreal.	CA 0365
		Lewvan, Sask.	
BECK, John C.	B.Sc.3.	1837 Dorchester St.W., Montreal.	WI 1502
BECKER, Bruce H.	B.Com.1.	Douglas Hall, Montreal.	BE 2885
		Richmond, Que.	
BECKETT, Kathleen B.	B.H.S. 4.	Macdonald College,Que....Ste.Anne	806,830
		1537 Summerhill Ave., Montreal.	
BECKOW, Norman.	B.Com. 1.	1341 Lajoie Avenue, Outremont.	CA 8460
BEDE, Brandt A.	Med. 4.	3610 Lorne Crescent,Apt. 5, Mont-	
		real.	MA 1553
		1211½ Division Ave., Tacoma, Wis.	
BEDWELL, Kathleen Y.	B.A. 3.	50 Lazard Avenue, Mount Royal.	AT 4026
BEER, William G.	B.Eng. 3.	3434 McTavish Street, Montreal.	PL 6773
		284 Inglewood Drive, Toronto, Ont.	
BEGERT, Kathleen E.	B.A. 3.	Royal Victoria College.	MA 9176
		5930 Hudson Street,Vancouver,B.C.	
BELAND, Arthur J.	Med. 2.	Apt.3, 3602 Durocher Ave., Mont-	
		real.	BE 1807
		405 Coombs St., Napa, Calif.	
BELAND, Hugues.	B.Sc. 4.	4133 Marcil Avenue, Montreal.	DE 8524
BELISLE, Pierre.	Law 2.	Apt.43,1469 Drummond St.,Montreal.	LA 2064
		55 St.Eustache St.,St.Eustache,Que.	
BELL, Mary Anita.	B.A. 1.	121 Desaulniers Boulevard,St.Lam-	
		bert.	Zone 7-284
BELLEROSE, Raymond C.	B.A. 2.	1700 Sherbrooke St.E., Apt. 18,	
		Montreal.	AM 1639
BENDZAITIS, Monica.	B.A. 1.	70 3rd Avenue,Ville Lasalle,Que.	
BENETT, Alice M.	B.A. 1.	49 Chesterfield Ave.,Westmount.	DE 6040
BENJAMIN, Gerald.	B.Com.3.	689 Dollard Boulevard, Montreal.	CA 4163
BENNETT, T. E.	Theol. 2.	3473 University St., Montreal.	MA 4902
		Fort St. John, B.C.	
BENNETT, Thomas S.	Grad. Sch.	3801 University Street, Montreal.	PL 1251
		212 E Wade St., Wadesboro, N.C.	
BENNIE, Ina May.	Teachers'(Elem.)	772 Sherbrooke St.W., Montreal.	HA 6268
		Riverfield, Que.	
BENSAUDE, Philippe R.	B.Com.2.	M.A.A.A. 2070 Peel St., Montreal.	
		151 Estrada da Luz, Lisbon,Portugal.	
BENTHAM, James M.	B.Eng.2.	4210 Westhill Avenue, N. D. G.	DE 2279
BENY, Charles F.	B.Eng.2.	Douglas Hall, Montreal.	BE 2885
		Medicine Hat, Alta.	
BERCOVITZ, Herbert.	B.A. 2.	5059 Ponsard Ave., Montreal.	DE 7404
BERCUSSON, Joseph.	B.Com.2.	4808 Clarke Street, Montreal.	MA 1858
BERESFORD-HOWE,Constance E.	B.A. 2.	4377 Harvard Ave., Montreal.	DE 5652
BERGER, Julius.	Grad. Sch.	4802 Oxford Ave., N. D. G.	DE 6757
BERGER, Mitzi.	B.A. 2.	4802 Oxford Ave., N. D. G.	DE 6757
BERKINSHAW, Daphne N.	B.Sc.1.	Royal Victoria College.	MA 9176
		252 Warren Road, Toronto, Ont.	
BERMAN, Aaron J.	Med. 3.	784 De L'Epee Ave., Outremont.	DO 2830
BERNSTEIN, Saul.	B.Eng. 4.	369 Laurier Ave.W., Montreal.	CA 6105
BERRY, Arthur H.	B.Eng. 4.	610 Green St., St. Lambert.	St.L 2971
BESSETTE, Andre.	Law 2.	4872 Papineau Ave.,Montreal.	CH 4540
BESSETTE, Roger.	B.Eng. 1.	687 Querbes Ave., Outremont.	CA 0696
BETTLEY, Robert R.	B.Eng. 3.	4518 Patricia Ave., N.D.G.	EL 0913
BEVERIDGE, Donald D.	Arch. 1.	3241 Cedar Ave., Westmount.	WE 3244
BEVERLY, William M.	B.Eng. 3.	3581 University St., Montreal.	MA 3842
		326 Waverley St., Winnipeg, Man.	
BIARD, Gordon.	B.Eng. 1.		
		Percé, Gaspe Co., Que.	
BICKLEY, Fred E.	B.Sc. 1.	5045 MacDonald Ave., Montreal.	EL 3322
BIENVENUE, René.	Arts P.	532 Clarke Ave., Westmount.	WE 4093
BILLY, Anna.	Grad. Nurses.	357 Carré S. Louis, Montreal.	LA 4576

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
BILODEAU, Francis J. D.	B.Eng. 2	256 Wood Avenue, Westmount	WI 3940
BILTON, Hilda Lila	Teachers' (Int.)	772 Sherbrooke St.W., Montreal	HA 6268
		Box 164, Windsor Mills, Que.	
BIRD, John H. R.	Arch. 1	4368 Harvard Avenue, N. D. G.	EL 2638
BIRKS, Mary E.	B.A. 1	4038 Vendome Avenue, Montreal.	
BIRMINGHAM, Lloyd W.	Med. 1	3462 Ste. Famille St., Montreal	HA 1719
		Upper Woodstock, N.B.	
BISHINSKY, Charles	Grad. Sch.	621 Bloomfield Ave., Outremont	CA 6986
BISHOP, John M.	B.Sc. 1	785 Upper Belmont Avenue, Westmount.	EL 3311
BISHOP, Thomas J. H.	B.A. 3	Douglas Hall, Montreal	BE 2885
		Shoreland, Fairylands, Bermuda.	
BISHOP, W. J.	Theol. 2	7046 Bloomfield Ave., Outremont.	
		3473 University Street, Montreal	MA 4902
BJARNASON, Johannes	B.Eng. 4	3433 Hutchison St., Montreal	LA 4790
		Reykjavik, Iceland.	
BLAGNER, Shirley J.	B.A. 1	4815 Queen Mary Road, Montreal	AT 3640
BLACK, Harvey H. D.	Med. 3	65 Rosemount Crescent, Westmount	FI 6036
BLACK, Neita D.	B.A. 1	352 Lansdowne Avenue, Westmount	DE 6095
BLADE, Milo O.	Med. 4	Douglas Hall, Montreal	BE 2885
		45 Tiogue Ave., West Warwick, R.I.	
BLAIKLOCK, David M.	B.Sc. 1	1110 Elgin Terrace Peel St.,Montreal.	LA 1931
BLAIN, Auray	Grad. Sch.	5496 5th Avenue, Rosemount	CH 7317
BLAIR, G. Robert	B.Sc. 1	7270 Sherbrooke St.W., Montreal.	
		Corner Brook, Newfoundland.	
BLAIR, Homer I. H.	B.Com. 1	Central Y.M.C.A. Montreal	MA 4171
		Spanish Town, Jamaica, B.W.I.	
BLAIR, Robert W.	B.Eng. 1	52 Windsor Avenue, Westmount	DE 9146
BLAKE, Edward G.	B.Eng. 1	3477A Hutchison Ave., Montreal	HA 4861
		141 Preston St., Ottawa, Ont.	
BLAKELY, Nelson W.	B.Eng. 4	3480 Durocher St., Montreal.	
		No.15 Fleetwood Apts.,Winnipeg,Man.	
BLANC, Paul	Grad.Sch.	1557 St. Mark St., Montreal	FI 0943
BLANCHARD, Donald A.	B.A. 4	1490 Closse Street, Montreal	WE 2986
BLANCHARD, William A.	B.Eng. 3	1490 Closse Street, Montreal	WE 2986
BLANK, Harry	B.Eng. 1	5882 Durocher Avenue, Montreal	CA 1427
BLASER, Albert	Arts P.	3610 Durocher, Apt.14,Montreal	LA 3556
BLAUSTEIN, Ancel U.	Med. 1	895 McEachran Ave., Montreal	CR 4969
BLITSTEIN, Harry	B.Com. 1	4851 Dornal Ave., Montreal	AT 7319
BLOCH, Victor Richard	B.A. 4	1958 St. Luke St.W., Montreal	WI 2706
BLOCK, Shirley C.	B.A. 3	481 Strathcona Ave., Westmount	WE 5600
BLODGETT, B. H.	Med. 4	3527 Lorne Ave., Montreal	MA 1956
		West Stewartstown, N.H.	
BLOOM, Charles A.	B.Eng. 4	6116 Durocher Ave., Outremont.	
BLOOMBERG, Allan D.	B.Eng. 3	5 Winchester Ave., Westmount	DE 2545
BLOOMFIELD, Solly	B.Sc. 1	941 Davaar Ave., Outremont	DO 3019
BLUESTONE, Miriam	B.A. 1	211 Maplewood Ave., Outremont	CR 3861
BLUMENFELD, Edward A.	D.P.H.	129 St. Joseph Blvd.W., Montreal	CA 0202
BLUMENTHAL, Samuel	Music	237 Mount Royal Ave. W., Montreal.	BE 3265
BOGERT, John R.	Med. 2	4976 Ponsard Ave., Montreal	WA 2466
BOIRE, Paul Charles	B.Eng.3	3538 Marlowe Ave., Montreal	DE 1669
BOND, George F.	Med. 1	66 Sherbrooke St. West., Montreal.	
		Hendersonville, N.C.	
BONE, Margaret T.	B.Sc. 1	551 Argyle Ave., Westmount	WE 4381
BONIN, Robert	B.Eng.1	4000 Hochelaga St., Montreal	CL 0174
BOOMHOUR, Alice M.	B.A. 1	Caughnawaga	LA 946W5
BOOTH, Don G.	B.Sc.1	Presbyterian Residence	PL 1649
		662A Rideau St., Ottawa, Ont.	
BOOTH, James	B.Eng. 4	5752-11th Ave.,Rosemount, Montreal.	
BOOTHROYD, Eric Roger	Grad. Sch.	3508 Durocher St., Montreal	LA 1338
		Bishop's University,Lennoxville,Que.	
BORCHARD, Claude G.	B.Sc. Agr. 2	Macdonald College, Que.	St.Anne 407,810
		4 Elmcroft Crescent, London, NW2, England.	
BORGNINO, Francis C.	Med. 1	545 Pine Ave.W.,Montreal	MA 1545
		741 Jackson St.,Albany,Calif.U.S.A.	
BORIGHT, Robert R.	Med. 2	421 Prince Arthur St.,Montreal	MA 3087
		Waterloo, Que.	
BORNETT, Kurt	B.Eng. 1	762 Sherbrooke St.W., Montreal.	
BORNSTEIN, Murray B.	Grad.Sch.	4596 Michél-Bibaud, Montreal	AT 5638
BOS, Carlo G.	Med. 4	538 Prince Arthur W., Montreal	HA 9729
		22 Branch Fushan Rd.,Tsingtao,China.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address.			
BOSS, Mark Macd.	B.Sc. Agr. 3.	Macdonald College, Que.	St.Anne 407, 810
		13 Ivy Ave., Ottawa, Ont.	
BOTT, Raoul.	B.Eng. 2.	Douglas Hall, Montreal.	BE 2885
		Trafalgar Apts., Montreal.	
BOUCHER, Fernard R.	B.Eng. 3.	5538 St. Denis St., Montreal.	DO 5447
		108 Levis St.,Shawinigan Falls,Que.	
BOCKUS, W. A.	Theol. 2.	3473 University St., Montreal.	MA 4902
BOUCLEY, Roger P.	B.Eng. 1.	4314 Bourbonniere Ave.,Montreal.	CL 5377
BOUFFARD, Jean C.	B.Sc.1.	8575 Chateaubriand Ave.,Montreal.	
BOUKYDIS, Geo. G.	B.Com.3.	1210 Pine Ave., Montreal.	HA 0098
		247 Dunvegan Rd., Toronto.	
BOURBONNIERE, Gerald.	B.Sc.1.	1555 Athlone Rd.,Town of Mount Royal.	AT 2454
BOURGAULT, J.A. Roland.	B.Eng.4.	2067 Jeanne Mance St.,Montreal.	HA 1649
		St.Agapit, Lotbiniere, P.Q.	
BOURGAULT, L. Alex.	B.Eng.3.	3619 University St., Montreal.	BE 0684
		Parkhurst Co., Lotbiniere, P.Q.	
BOURGEOIS, Philippe.	Grad.Sch.	Experimental Station, St. Anne de la Pocatiere, Que.	
BOURKE, Douglas B.	B.Sc.1.	774 Upper Lansdowne Ave.,Westmount.	EL2343
BOURKE, J. W. A.	Arts P.	3861 Lasalle Blvd., Verdun.	YO 0952
BOURNE, Hilary B.	Med. 1.	3445 Peel St., Montreal.	HA 9462
		Congo Rd., St Philip,Barbados,B.W.I.	
BOURNE, Maurice E.	Dent.2.	6642 De Monts St., Ville Emard, Montreal.	WE 1481
BOURNE, Robert H.	B.Sc.1.	4833 Western Ave., Montreal.	EL 2324
BOURNS, Arthur N.	Grad.Sch.	3581 Lorne Ave.,Apt.6,Montreal.	MA 4048
		Petitcodiac, N.B.	
BOVELL, Geo. L.	B.Sc.Agr.2.	Macdonald College, Que.	Ste A.407,810
		Hill Crest,St.Joseph,Trinidad,B.W.I.	
BOVEY, Audrey E.	B.A. 3.	25 Bellevue Ave., Montreal.	WE 2557
BOWDEN, Albert E.	B.Eng.4.	1839 Lincoln Ave.,Apt.2,Montreal.	
BOWEN, John R.	Med. 1.	762 Sherbrooke St.W., Montreal.	MA 0298
		42 Pleasant St.,Somersworth,N.H. USA.	
BOWEN, Wilbert G.	Grad.Sch.	5530 Cote St.Luke Rd., Montreal.	EL 2958
		512 Elbow Drive, Calgary, Alta.	
BOWER, John R.	Grad Sch.	3420 University St., Montreal	
		4 N.Howie St.,Helena, Montana,USA.	
BOWES, Walter G.	Grad.Sch.	Douglas Hall, Montreal.	BE 2885
		Windsor, Nova Scotia.	
BOWMAN, Ann E. Nancy.	B.H.S. 1.	Macdonald College, Que.	Ste A.806,830
		446 Cloverdale Ave., Ottawa, Ont.	
BOYCE, Florence O.	B.A. 4.	4405 Wellington St., Verdun, P.Q.	YO 5498
BOYD, Laurence S.	B.Sc. 2.	Douglas Hall, Montreal.	BE 2885
		Bobcaygeon, Ont.	
BOYER, Thos. W.	Grad.Sch.	2063 Stanley St., Montreal.	MA 9038
		11009-99 Ave., Edmonton, Alberta.	
BOYLE, Willard S.	B.Sc.2.	4780 Cote des Neiges Rd., Montreal.	WE 3062
BRADFORD, Florence E.	Grad.Sch.	Douglas Hall, Montreal.	BE 2885
		935 Somerset St.W., Ottawa, Ont.	
BRADFORD, Walter R.	B.Sc.2.	477 Prince Arthur St., Montreal.	LA 3691
		21 Mountain St., Granby, P.Q.	
BRADFORD, William R. C.	B.Sc.Agr 1.	Macdonald College, Que.	Ste A.407,810
		R.R. 5 Lachute, Que.	
BRADY, Frank P.	B.Sc.1.	6791 St.Denis St., Montreal.	TA 1430
BRAGINETZ, Evelyn.	B.A. 2.	3487 Durocher St., Montreal.	
BRAIDWOOD, Richard H.	B.Sc.1.	3443 Grey Ave., N. D. G.	EL 4189
BRANDER, Ross.	B.Sc.1.	3447 Rosedale Ave., N. D. G.	DE 0264
BRANDT, Rene E.	B.Eng.3.	3445 Peel St., Montreal.	HA 9462
		Scotstown, Que.	
BRASCH, Harold A.	Med. 1.	3583 University St.,Montreal.	
		246 Pembroke,W, Pembroke, Ont.	
BRASLOFF, Reuben I.	B.Eng.3.	5617 Jeanne Mance St., Montreal.	CR 6311
BRASS, Kathryn V.	B.A.3.	Connaught Apts.,26. 1009 Laird Blvd.	
		Town of Mount Royal.	AT 9603
BRAYE, William J.	Med. 2.	3668 Durocher St., Montreal.	MA 1964
		118 Common St., Walpole, Mass.	
BRAZER, Harvey Elliot.	B.Com.4.	731 Querbes Ave., Outremont.	CR 7214
BRECHER, Irving.	B.A. 4.	73 Pagnuelo Ave., Outremont.	CA 6262
BRECHER, Michael.	B.Com.1.	73 Pagnuelo Ave., Outremont.	CA 6262
BREEDEN, Brewster C.	Med. 4.	4800 Cote des Neiges Rd.,Montreal.	WE 5354
		182 Ridgewood Ave.,Glen Ridge, N.J.	
BREGMAN, Asher.	B.Eng.2.	5381 Esplanade Ave., Montreal.	CR 2529

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address.			
BREITHAUPT, Sally C.	B.A. 1.	Royal Victoria College, Montreal.	MA 9176
		2 Lancaster St. E., Kitchener, Ont.	
BREITMAN, Dorothy.	Music P.	4675 Hutchison St., Montreal.	CR 0128
BRENNAN, Robert Lyle.	B.Sc. 4.	3477A Hutchison St., Montreal.	HA 4861
		172 Elm St., Ottawa, Ont.	
BRENNIAN, Frank H.	B.Eng.3.	1500 Chomedy St., Montreal.	FI 4595
		Lachute, P.Q.	
BRENT, Bernice M.	B.Sc. 4.	4392 Coolbrook Ave., Montreal.	EL 6994
BRETT, Philip A.	B.Sc. 2.	4180 Melrose Ave., NDG., Montreal.	
BRETT, Robert L.	B.Sc. 1.	Douglas Hall, Montreal.	BE 2885
		565 Brierwood Ave., Ottawa, Ont.	
BREWER, Basil B.	B.Sc. 1.	447 Mount Pleasant Ave., Montreal.	WI 5465
BREWER, Charles P.	Grad. Sch.	Apt.6,495 Prince Arthur St.West, Montreal.	LA 8617
		3791 Inverness St., Vancouver, B.C.	
BREWER, Griffith C.	B.A. 3.	1206 Seymour Ave., Montreal.	WI 3319
BREWERTON, Derrick A.	B.Sc.3.	Douglas Hall, Montreal.	BE 2885
		76 Roxborough Apts., Ottawa.	
BRIDGES, Donald E.	Med. 2.	1000 Sherbrooke St., Montreal.	BE 0657
		796 Union St., Bangor, Maine, U.S.A.	
BRITTAIN, Barbara B.	Teachers'(El.).	Macdonald College, Que.	
		Strathcona Hall, Montreal.	HA 6268
BROADHURST, Margaret F.	Lib.Sch.	4384 Sherbrooke St. West, Montreal.	FI 1656
		Waterloo, Que.	
BROCHU, Francis L.	B.Sc.2.	210 First St., St.Lambert, Que.	St.L. 2440
BROCK, Hyman B.	B.Eng.1.	738 Bloomfield Ave., Outremont.	DO 7694
BROCK, Warren H.	Med. 1.	762 Sherbrooke St.W., Montreal.	MA 0298
		Route 1,Box 126, Manchester, N.H.	
BROCKHURST, Donald N.	B.Sc.1.	Y.M.C.A.1441 Drummond St.,Montreal.	MA 4171
		4700 Connecticut Ave., N.W. Washington, D.C.	
BROCKINGTON, Colin W. M.	Med. 3.	Douglas Hall, Montreal.	BE 2885
		125 Acacia Ave., Ottawa, Ont.	
BRODE, William R.	Med. 4.	3426 McTavish St., Montreal.	LA 9894
		1803 Franklin St., San Francisco, Calif.	
BRODIE, Barbara C.	B.A. 2.	471 Upper Roslyn Ave., Montreal.	EL 6333
BRODIE, Jane W.	B.A. 3.	635 Murray Hill, Montreal.	WE 3467
BRODIE-BROCKWELL, Chas. G.	Med. 1.	2084 Claremont Ave., NDG., Montreal.	EL 5434
BRODKIN, Leslie G.	B.A. 2.	657 Roslyn Ave., Montreal.	EL 1767
BROGDEN, Clarence LeR.	B.Sc.Agr.4.	Macdonald College, Que.	Ste Anne 407, 810
		51 Avon St., Stratford, Ont.	
BRODYLO, Stanley S.	B.Eng.1.	2106 Clark St., Montreal.	LA 1871
BROMLEY, Hazel E.	Med. 2.	3560 University St., Montreal.	LA 8318
		Cor.Second Ave., and Pamuna St., Crockett, Calif.	
BRONFMAN, Mildred M.	Partial.	9 Belvedere Rd. Westmount.	FI 2484
BRONFMAN, Ruth.	B.A. 1.	609 Carleton Ave., Montreal.	WE 1636
BRONSTEIN, Edythe.	B.A. 3.	768 Wiseman Ave., Outremont.	DO 2265
BROOKS, Barbara.	Med. 4.	456 Pine Ave. West, Montreal.	LA 0937
BROOKS, Ian C.	B.Com.1.	145 Wolseley Ave., Montreal West.	DE 8026
BROOKS, Jackson J.	B.A. 1.	4508 Wilson Ave., Montreal.	EL 0992
BROPHY, Frank S.	B.Sc.1.	484 Pine Ave., St. Lambert.	St.L. 2604
BROWMAN, Mark.	B.Sc.3.	4168 Marcil Ave., Montreal.	DE 8285
BROWN, Diana B.	B.A. 1.	4691 Westmount Ave., Westmount.	WE 2226
BROWN, Donald R.	B.Eng.3.	3430 Beaconsfield Ave., Montreal.	DE 4075
BROWN, Ian A.	Med. 2.	1462 Guy St., Apt. 33, Montreal	DE 2500
		1520 Delaware St., Scranton, Penna.	
BROWN, James M.	Med. 2.	3562 University St., Montreal.	LA 3994
BROWN, Jean.	Music.	Strathcona Hall, Montreal.	HA 6268
		123 Lansdowne Ave., Fredericton, N.B.	
BROWN, Kenneth B.	B.Sc. 2.	345 Grosvenor Ave., Montreal.	WA 3108
BROWN, Ralph W.	B.Sc. 1.	Austin St., Chateauguay Heights, Que.	110-J
BROWN, Regina L.	Teachers'(Inter)	3839 Marlowe Ave., Montreal.	
BROWN, Robert W.	B.Com.1.	2055 Mansfield St., Montreal.	DE 8043
		82 Pine Street, Port Hope, Ont.	305

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

BROWN, Ronald E.	Partial Agr.	Macdonald College, Que.	Ste.A.407,810
BROWN, Thos. S.	B.Sc.Agr.1	Macdonald College, Que.	Ste.A.407,810
		156 Easton Ave.,Montreal West.	
BROWN, William H.	B.Sc. 2	226 Westminster Ave.,Montreal	EL 8330
BROWNING, Darrell N.	Med. 2	3547 University St., Montreal	LA 0789
		1535 Grant St.,Berkeley, Calif.	
BROWNS, Merle E.	B.A. 2	748 Davaar Ave., Outremont	CA 5664
BRUGER, Judith M.	B.H.S. 3	Macdonald College, Que.	Ste.A.806,830
		58 Courcelette Ave., Outremont, Que.	
BRUSHETT, Donald A.	B.A. 4	1477 Closse St., Montreal	WI 5374
		Creston, Newfoundland.	
BUCHANAN, John H.	Dent.1	Douglas Hall, Montreal	BE 2885
		133 Stewart St., Ottawa.	
BUCHANAN, Mary E.	B.Sc.1	5590 Queen Mary Rd.,Hampstead	DE 5229
BUCK, Thomas E.	B.Sc.1	5975 Claude St., Verdun	WI 6785
BUCKMAN, H. Jean	Arts P.	Royal Victoria College,Montreal	MA 9176
		167 Gilmour St., Ottawa, Ont.	
BURDEN, Margaret J.	B.Sc.1	623 Murray Hill, Montreal	WE 3026
BURGESS, Basil A.	B.Eng.4	4334 Harvard Ave., Montreal	EL 2048
BURGESS, Harry M.	Med. 2	1468 Crescent St., Montreal	PL 2479
BURKE, Rita M.	B.A. 1	Royal Victoria College,Montreal	MA 9176
		672 St.Louis St.,Joliette,Que.	
BURNETT, Clyde	Dent 3	3456 University St.,Montreal	LA 4702
		43 Richmond St.,P.O.S. Trinidad,B.W.I.	
BURNS, Aleta	B.Sc.3	5145 Cote St. Luc Rd., Apt.11	WA 6323
		17110 Third Ave.,Detroit,Michigan.	
BURNS, Frank L.	Dent 4	18 Ballantyne Ave.,South, Montreal West	DE 4139
BURROUGHS, Frances H.	B.A. 1	303 Strathearn Ave.,Montreal	DE 8559
BURROUGHS, John C.	B.Eng.1	4685 Mentana, Montreal	FR 7530
		78 Wurtemburg, Ottawa.	
BURROWS, Charles R.	B.Eng.1	Douglas Hall, Montreal	BE 2885
		283 Acacia Ave., Ottawa, Ont.	
BURTON, Charles F.	Med. 1	3547 University St.,Montreal	LA 0789
		776 Mandana Blvd., Oakland, Calif.	
BURWELL, Robert B.	B.Sc.2	Apt.7,3504 Park Ave., Montreal.	
		Renfrew St., Renfrew,Ont.	
BUSH, William H.	B.Sc.1	221 Strathearn Ave., Montreal W.	DE 1529
BUTLER, Arthur M.	B.A. 4	378A Ash Ave., Montreal	FI 3268
BUTT, William J.	B.A. 4	3520 University St.,Montreal.	
		Carbonear, Newfoundland.	
BUTTERWORTH, John F.	B.Sc.Agr.1	Macdonald College,Que.	Ste.A.407,810
		1545 Drummond St., Montreal,Que.	
BYERS, Paul D.	Med. 1	5606 Queen Mary Rd.,Hampstead,Que.	EL 4838
BYERS, Stephen P.	B.Eng.1	5606 Queen Mary Rd.,Hampstead,Que.	EL 4838
CABOTT, Irwin M.	B.Sc.1	5125 N. D. G. Ave., Montreal	DE 4735
CACH, John	B.Sc.4	428 Elm Ave., Westmount	WE 3784
CADE, Geraldine M.	B.H.S.3	Macdonald College, Que.	Ste.A.806,830
		Box 495, Prince Rupert, B.C.	
CAGEORGE, John D.	Med. 2	78-44th Ave., Lachine, Que.	Lachine 1738-R
CAGNEY, Aileen F.	B.A. 4	374 Kitchener Ave., Westmount	WI 0845
CAHN, Robert P.	B.Eng.2	4028 Vendome Ave., Montreal	DE 5748
CALDER, J. Ralph	Med. 1	Douglas Hall, Montreal	BE 2885
		92 Upper Hillsbro St., Charlotte-town, P.E.I.	
CALDERON, Carlos	B.Eng.2	3571 Vendome Ave., Montreal	WA 3257
CALLIN, Ellen G.	Grad.Nurses	Strathcona Hall, Montreal	HA 6268
		Whitewood, Saskatchewan.	
CAMBRIDGE, John D.	B.Com.3	3437 Peel St., Montreal	Pl 1674
		181 Dowling Ave., Toronto.	
CAMERON, Archibald F.	Dent.4	422 Wood Ave., Westmount	FI 7037
CAMERON, W. Duncan	B.Com.1	1440 Chomedy St., Montreal	WI 1230

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

CAMERON, Gordon W.	Med.1	Douglas Hall, Montreal	BE 2885
		260 Metcalfe St., Ottawa, Ont.	
CAMERON, Jean	Music	Royal Victoria College, Montreal	MA 9176
		Bay Roberts, Newfoundland.	
CAMERON, Lily F.	B.Sc.(Agr.)	Macdonald College, Que.	Ste A.806,830
		Box 537, Inverness, N.S.	
CAMERON, Margaret O.	B.Sc.1	Royal Victoria College, Montreal	MA 9176
		14 Waban Hill Rd., Chestnut Hill,Mass.	
CAMERON, Marjorie J.	Grad.Nurses	772 Sherbrooke St.W., Montreal	HA 6268
		67 College St., Toronto, Ont.	
CAMERON, Mary E. W.	B.A. 1	135 3rd Ave., Verdun, Que	YO 6611
		P.O. Box 22, San Fernando, Trinidad.	
CAMPBELL, Annette	B.A. 1	Royal Victoria College	MA 9176
		2000 Cedar Crescent, Vancouver, B.C.	
CAMPBELL, Barbara R.	B.Sc.3	52 Forden Crescent, Westmount	WE 5328
CAMPBELL, Charles G.	Med. 1	Douglas Hall, Montreal	BE 2885
		1253 Devonshire Crescent,Vancouver,B.C.	
CAMPBELL, Colin James	B.A. 2	3530 St. Famille St., Montreal	PL 4035
CAMPBELL, Dorothy A.	B.H.S. 3	Macdonald College, Que.	Ste.A.407,810
		Black's Harbour, N.B.	
CAMPBELL, Donald E.	B.A. 2	360 Milton St., Montreal	HA 9017
		"Pisgah Heights" Pembroke, Bermuda.	
CAMPBELL, D. Glenn	Theol.1	7485 Boyer Street, Montreal.	
		Rodney, Ont.	
CAMPBELL, Douglas J.	B.Eng.2	Douglas Hall, Montreal	BE 2885
		Fort Hill Park, Staten Island, N. Y.	
CAMPBELL, Janet	B.A. 1	54 Forden Crescent, Westmount.	
CAMPBELL, Jean F.	B.A. 3	1511 Mackay Street, Montreal	PL 7601
CAMPBELL, Margery R.	B.A. 1	296 Broadway, Lachine	Lachine 724
CAMPBELL, Robert A.	B.Eng.2	10 Marsolais Ave., Outremont	CA 1688
CAMPLONG, Calvin B.	B.Sc.1	2292 Hingston Ave., Montreal	EL 9132
		Hudson Heights, Que.	
CANDLISH, Stanley M.	B.Sc.1	5736 Durocher St., Outremont	DO 1551
CANTIN, Marie E.	Grad.Nurses	Apt.3,4352 St.Denis St.,Montreal	LA 6072
CAPE, David G. M.	B.Sc.2	1210 Redpath Crescent, Montreal	PL 2092
CAPLAN, Bernard	B.Sc.3	4145 De Bullion St., Montreal.	
CAPLAN, Harvey	Med. 2	3498 City Hall Ave.,Montreal.	
CAPLAN, Hyman	Med. 2	4145 De Bullion St.,Montreal.	
CAPPER, William D.	B.Sc.2	4686 Westmount Ave., Westmount	WE 4784
CARD, Mervin Lloyd	B.Eng.3	1115 Sherbrooke St.W., Montreal.	
		1830 Westcott Road, Windsor,Ont.	
CARLING, John David	B.Sc.2	236 Kensington Ave.,Westmount	WE 5182
CARLISLE, Patricia E.	Arts P.	1545 McGregor St., Montreal	FI 6448
CARLTON, Lucille	B.Sc.4	Royal Victoria College	MA 9176
		Chester, Vermont.	
CARLUCCI, Vincent A.	Dent.1	3471 Hutchison St., Montreal.	
		12 Merchant, Barre, Vt.	
CARON, Gaston G.	B.Sc.1	2264 Wilson Ave., N.D.G.,Montreal.	
CARON, Maurice C.	B.Eng.3	3619 University St., Montreal	MA 6959
		83 St. Cyrille St., Quebec, Que.	
CARR, Joyce	Arts P.	Royal Victoria College	MA 9176
		7 Mary Street, Perth, Ont.	
CARRIER, Gaston M.	Theol.2	2054 Marlowe Ave.,Montreal	DE 8977
CARRUTHERS, John B.	B.Eng.2	148 Wolseley Ave.,Montreal	DE 9919
CARSON, John R.	Theol.3	3485 McTavish St.,Montreal	PL 1649
		Charlottetown, P. E. I.	
CARSON, William R.	B.Eng.4	3525 University St.,Montreal	MA 4352
		Rock Island, Que.	
CARSWELL, Lois E.	B.A. 1	669 Grosvenor Ave., Westmount	WA 3826
CARTER, Hilton M.	B.Com.1	102 Willowdale Ave.,Outremont	AT 0974
CARTER, Jean S.	B.Com.3	3432 Marlowe Ave., Montreal	DE 9321
CASHIN, John C.	Med.4	Douglas Hall, Montreal	BE 2885
		6 Cherry Hill, Adams, Mass.	
CASSIDY, Joan P.	B.A.3	3514 Maplewood Ave., Outremont	AT 6604
CASSIRER, Thomas	B.A.2	3609 University St., Montreal	LA 6307
		Tandacar,Llanelltyo,Dolgelly,Wales.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

CASTELLI, Pearlmarie	B.A.2	Royal Victoria College	MA 9176
		1834 Mulford Ave., New York, N.Y.	
CATTERSON, William M.	B.Sc.2	477 Prince Arthur St.W.,Montreal	LA 3691
		128 Main St., Farnham, Que.	
CAWTHORPE, Harriett A.	Med. 3	6875 LaSalle Blvd.,Montreal	YO 2401
		872 Adelaide St., London, Ont.	
CAYCI, Macit	B.Eng.2	1450 Bishop Street, Montreal	MA 9954
		Amasya, Turkey.	
CAYFORD, Anne M.	B.Sc.2	4158 Oxford Ave., Montreal	DE 9232
CEBECI, Ahmet	B.Eng.4	3465 Cote de Neiges Rd.,Montreal	WE 3387
		Develi, Turkey.	
CHADWICK, Martha J.	B.A. 3	18 Ramezay Road, Montreal	FI 7891
CHAIKIN, John David	B.Sc. (Agr.) 1	Macdonald College,Que	Ste.A. 407,810
		840 Wiseman Ave., Montreal.	
CHALMERS, Edith A.	B.H.S.4	Macdonald College, Que	Ste.A 806,830
		Box 187, Bathurst, N.B.	
CHAMBERLAIN, William H.	Med. 2	3478 McTavish St., Montreal	PL 7412
		Galloway Road, Warwick, N.Y.	
CHAN, Allan P.	B.Sc. (Agr.) 3	Macdonald College, Que	Ste.A. 407,810
		10575 Parthenais St., Montreal.	
CHANLER, Mollie B.	Phys. Ed. 1	Royal Victoria College	MA 9176
		37 Portledge Ave., Moncton, N.B.	
CHAPLIN, Sylvia L.	Arch.3	Royal Victoria College	MA 9176
		Wakefield, Que.	
CHAPMAN, Helen M.	B.H.S.1	Macdonald College, Que	Ste.A. 806,830
		30 Elliott St., Galt, Ont.	
CHAPMAN, Ross A.	Grad. Sch	Box 215, Macdonald College,Que	Ste.A. 407,810
		30 Elliott St., Galt, Ont.	
CHARD, Catherine M.	Arch.5	241 Elm Ave., Westmount	FI 7768
CHARLESON, Diana A.	B.A. 2	Royal Victoria College	MA 9176
		Vatch Lodge, Chalfont St. Giles, Bucks, England.	
CHARLESON, Ina	Arch. 1	Royal Victoria College	MA 9176
		Vatch Lodge, Chalfont St. Giles, Bucks, England.	
CHARTERS, John S.	Med. 2	218 Metcalfe Ave., Westmount	WE 4608
CHARTON, Herman	B.Eng.4	336 Woodland Avenue, Verdun.	
CHARTON, Jean	B.Eng.1	2027 McGill College Ave., Montreal.	
		9125 La Salle Blvd.,Ville La Salle,P.Q.	DE 8918
CHARTON, Maryelle	B.Sc.3	9125 LaSalle Blvd., Montreal	DE 8198
CHARTRAND, Rosemary M.	Partial	249 Melville Ave., Westmount	FI 3355
CHAUVIN, John C.	B.Eng.4	2789 Maplewood Ave., Outremont	AT 2691
CHENIVESSE, Emile	B.Eng.1	2174 Lincoln Avenue, Montreal	FI 9050
		Caixa Postal 354, Manaos, Amazonas, Brazil.	
CHERNIAVSKY, Janey	B.Sc.2	Royal Victoria Colege	MA 9176
		1507 12th Avenue W., Vancouver, B.C.	
CHERRY, Joseph Bentley	Med. 3	Douglas Hall, Montreal	BE 2885
		23 John St., Norwich, Conn.	
CHERRY, Raymond Paul	B.Com.2	34 Maplewood Avenue, Outremont	CA 4348
CHEYNEY, B.J. Kenneth	B.Com.2	2156 Sherbrooke St.W., Montreal	FI 5924
CHIASSON, Simon W.	Med. 2	3602 Durocher St., Montreal	MA 4939
		8th Street, New Waterford, N.S.	
CHIN LOY, Arthur S.	B.Sc.3	3433 Peel Street, Montreal	HA 2412
		71-73 Princess St., Kingston, Jamaica.	
CHINN, Norman W.	B.Eng. 2	4639 Melrose Avenue, N. D. G.	DE 2227
CHIN YEE, Egbert A.	B.Eng. 1	3480 Durocher Street, Montreal.	
		67 Princess St., Kingston, Jamaica.	
CHIPMAN, Anthony W.	B.A. 1	3420 McTavish Street, Montreal	PL 1050
CHIPMAN, Mary P. A.	B.A. 3	3420 McTavish Street, Montreal	PL 1050
CHIPPINDALE, Marion	B.Com.2	44 Academy Road, Westmount	WI 9448
CHISHOLM, Elizabeth P.	B.Sc. 3	620 Victoria Ave., Westmount	DE 4620
		c/o J.O. Wilson, 289 Laurier Avenue, Quebec.	
CHISHOLM, F. H. Bruce	B.Sc. 1	4769 Grosvenor Ave., Montreal	EL 1435
CHODOS, Joel B.	B.Sc. 2	7 Villeneuve St.E., Montreal	LA 2683
CHOQUETTE, Laurent P.E.	Grad. Sch	Macdonald College, Que	Ste.A. 407,810
		1300 Morrison St.,St.Hyacinthe,Que.	
CHRISTIAN, William R.	Grad. Sch	4235 Decarie Blvd., Montreal	EL 1962

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

CHRISTIE, Anna A.	Grad.Nurses	Western Division, Montreal General Hospital	WI 3121 Lo.300
		St.Peter's, N.S.	
CHRISTMAS, Thomas H.C.	B.A. 2	63 Columbia Ave., Montreal	WE 4609
CHRISTMAS, Walter I.W.	B.Sc.1	63 Columbia Ave., Montreal	WE 4609
CHURCH, Carlton L.	Dent.2	Douglas Hall, Montreal	BE 2885
		2259 Hamilton St., Regina, Sask.	
CHURCHILL, Audrey M.	B.A. 3	3488 Hingston Ave., N. D. G.	DE 0238
CIMENT, Morty	B.Eng.1	1206 Lajoie Ave., Outremont	CA 2282
CLAGUE, Joan M.	B.A. 4	Royal Victoria College	MA 9176
		c/o Mr. E.E. Duckworth, Sun Life Assurance Com., Dominion Square, Montreal.	
CLARK, Catherine M.	B.Sc.2	Royal Victoria College	MA 9176
		136 Carling Ave., Ottawa, Ont.	
CLARK, George W.	Med. 2	3581 University St., Montreal	MA 3842
		Box 234, Chazy, N.Y.	
CLARK, Norman E.	B.Sc.2	3547 University St., Montreal	LA 0789
		5131A Minerva Ave., St. Louis, Mo.	
CLARK, Robert H.	B.Eng.4	3525 University St., Montreal.	
		303 Morley Ave., Winnipeg, Man.	
CLARK, Thomas C.	B.Sc.2	3434 McTavish St., Montreal	PL 6773
		51 Herkimer St., Hamilton, Ont.	
CLARK, William T. H.	Arch. 1	4435 Sherbrooke St.W., Westmount	WI 0935
CLARKE, Douglas B.	Grad. Sch	1487 Mountain St.,Apt.17,Montreal	MA 9769
CLARKE, Eleanor L.	Grad. Sch	762 Sherbrooke St.W., Montreal.	
		Box 555, Copper Cliff, Ont.	
CLARKE, James M.	B.Eng.3	4400 Old Orchard Ave., Montreal	WA 5054
CLARKE, Rosemary A.	B.A. 2	1321 Sherbrooke St.W., Montreal	MA 7601
CLARKE, Walter T.	B.Sc.1	285 Argyle Ave., Verdun	YO 0727
CLEARY, Frank W.	Med. 4	1529 Cedar Avenue, Montreal	PL 4464
		146 Chapin Lane, Burlingame, Calif.	
CLEMENT, Neville	Arts P	Apt. 5, 2039 Peel Street, Montreal.	
CLERMONT, Louis,Philippe	B.Eng.2	359 Lakeshore Road, Pointe Claire	771
CLEUGH, Peter B.	B.Sc.1	114 34th Avenue, Lachine	Lachine 1257
CLEYN, Otto C.	B.Eng.4	1 Rosemount Ave., Westmount	WE 5623
CLIFFE, Bruce F.	B.Sc.(Agr.)4	Macdonald College, Quebec	Ste A. 407, 810
		15 Beaudet St., St. Laurent, Que.	
CLIFFORD, Joseph C.	Med. 4	3481 Park Ave.,Apt.3, Montreal	MA 6447
		50 S Judson St., Gloversville, N.Y.	
CLIMAN, Geraldine	B.Sc.1	4866 Hutchison St., Montreal	CR 2728
CLOGG, Donald K.	B.Sc.1	1 Murray Ave., Westmount	WE 6185
CLOSE, William R.	B.Sc.1	11 Grove Park, Westmount	WI 9238
CLOUSTON, James M.	B.Sc.2	1018 Sherbrooke St. W., Montreal.	
		Huntingdon, Que.	
CLUSE, Virginia M.	B.Sc.1	239 Percival Ave., Montreal West	DE 8816
COATES, Donald F.	B.Eng.1	Apt.3, 4501 Decarie Blvd.,Montreal	WA 5445
COBURN, Maragret J.	B.H.S.2	Macdonald College,Que	Ste.A. 806
		Mouth of Keswick, N.B.	
COCHRANE, Lois M.	Phys.Ed.2	4642 Oxford Ave., N. D. G.	EL 4152
COCHRANE, Martha L.	B.Sc.(Agr.) 2	Macdonald College, Que.	Ste.A. 806, 830
		Ste Anne de Bellevue, Que.	
COCKFIELD, Robert N.	B.Com.1	171 Edgehill Road, Westmount	WE 4344
COCKFIELD, Shirley H.	B.H.S. 2	Macdonald College, Que	Ste.A. 806, 830
		5890 Cartier St., Vancouver, B.C.	
COGGESHALL, Bayard	Med. 4	3551 University St., Montreal	HA 0325
		14 Franklin Place, Morristown, N.J.	
COHEN, Abbey	B.Eng.3	4654 Hutchison St., Montreal	CR 0666
COHEN, Eva	B.Sc.1	5135 Clarke St., Montreal	CR 5227
COHEN, Frances	B.A. 4	828 Wiseman Ave.,Apt.3, Outremont	CA 3381
COHEN, Herman	B.Sc.3	5157 Esplanade Ave., Montreal	CA 5693
COHEN, Irving	Arch.1	63 Cote St.Catherine Rd.,Montreal	CA 1794
COHEN, Israel L.	B.Eng.1	4326 Laval Ave., Montreal	MA 3112
COHEN, Judith	B.Sc.3	710 McEachran Ave., Outremont	CA 6241
COHEN, Morris	B.Com.3	1200 Sherbrooke St.W., Montreal.	
		46 Range Road, Ottawa, Ont.	
COHEN, Peter Z.	B.Eng.4	20 Laviolette Ave., Outremont	CR 1229
COHEN, Phyllis G.	Arts P	5 Douglas Ave., Montreal	WE 4539
COHEN, Ralph A.	Arts P	4127 Wilson Ave., Montreal	DE 0336

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

COHEN, Ralph R.	B.Sc.1	628 Victoria Ave., Westmount	WA 8510
COHEN, Robert H.	Dent.2	4127 Wilson Ave., Montreal	DE 0336
COHEN, Rose	Teachers'(Elem).	5135 Clarke St., Montreal	CR 5227
COHEN, Ruth	B.A. 1	46 Range Road, Ottawa.	
COHEN, Suzann F.	B.A. 4	4955 Cote des Neiges Rd., Montreal	AT 3572
COLAS, Emile J.	B.Eng.1	8927 St. Hubert St., Montreal	AM 3043
COLE, Joyce Betty	B.A. 3	4548 Mayfair Ave., Montreal	DE 0857
COLE, Ralph E.	B.Arch.1	3433 Peel St., Montreal	PL 1764
		1053 Windermere Rd., Windsor, Ont.	
COLE, Shirley M.	B.A. 1	611 Sydenham Ave., Westmount	WE 4324
		354 Danforth St., Portland, Maine.	
COLEMAN, Laura I. M.	B.Sc.4	Royal Victoria College, Montreal	MA 9176
COLFORD, George F.	B.Sc.2	51 Upper Bellevue Ave.,West	DE 2178
COLLE, Albert J.	Dent.2	765 Champagneur Ave., Outremont	DO 3839
COLLET, Marc A.	B.Eng.3	223 Clarke Ave., Westmount	WE 5244
COLLIER, Robert D.	B.Eng.2	2 Ellerdale Rd., Hampstead	EL 7846
COLLINS, Anne M.	B.Sc.1	Royal Victoria College	MA 9176
		669 Laviolette Ave.,Three Rivers,Que.	
COLLINS, Cicely J.	B.A.3	456 Pine Ave.,Apt.B 4, Montreal	MA 9701
		64 Carlyle Ave., Ottawa, Ont.	
COLLINS, Robert M.	Med.3	3527 Lorne Ave., Montreal	MA 9156
		41 Bay St., Potsdam, N.Y.	
COLLIP, Barbara V.	Med.2	622 Sydenham Ave., Westmount	WE 6595
COLPITTS, Robert V.	Med.2	3483 Peel St., Montreal	LA 0643
		Salisbury, N.B.	
COLQUOHOUN, Jean McI.	B.Sc.3	Royal Victoria College,Montreal	MA 9176
		Vancouver, B.C.	
COLTER, Shirley L.	B.A. 2	Royal Victoria College,Montreal	MA 9176
		Fredericton, N.B.	
COMMON, William J.	B.A. 2	584 Lansdowne Ave., Montreal	EL 0205
COMPTON, Neil M.	B.A. 4	4831 Sherbrooke St.W.,Apt.9,Montreal	WA 1779
CONNAL, Elizabeth J.	B.A. 1	4049 Grey Ave., Montreal	EL 0614
CONNOLLY, Joseph S.	B.Com.4	695 Grosvenor Ave., Montreal	EL 4500
CONNOLLY, Robert E.	B.Eng.1	695 Grosvenor Ave., Montreal	EL 4500
CONROY, Hilda C.	B.H.S.P.	9 St.Peter St.,Ste Anne de Bellevue,Que.	
COOK, Edna M.	B.H.S.1	Macdonald College, Que.	Ste.A. 806, 830
		11 Mary St., New Liskeard, Ont.	
COOKMAN, Robert S.	B.Sc.1	123 Ouimet Ave., St.Laurent, Que.	BY 2552
COOPER, Bruce M.	Med. 4	538 Prince Arthur St.W.	HA 9729
		East Angus, Que.	
COOPER, Howard B.	B.Eng.3	5335 Brodeur Ave., N. D. G.	EL 6169
COOPER, Stanley F.	B.A. 2	6 Kelvin Ave., Outremont, P.Q.	AT 0822
COOPER, Stewart R.	Med. 3	5335 Brodeur Ave., Montreal	EL 6169
COOPER-JONES, Gwyneth.	B.Arch. 2	Royal Victoria College, Montreal	MA 9176
		48 Monck St., St.Catharines,Ont.	
COOTE, Alexander H.	H.Eng.4	7 Cedar Ave.,Pointe Claire, Que.	Pte.C. 2411
CORBET, Villiers S.B.	B.Eng.3	3619 University St., Montreal	BE 0684
		11116-84 Ave., Edmonton, Alberta.	
CORBETT, Helen R.	B.A. 3	Royal Victoria College, Montreal	MA 9176
		R.R.4 Magog, P.Q.	
CORDELL, Constance	B.A. 3	3770 Westmount Blvd., Westmount	WE 4447
CORDUKES,William E.	B.Sc.Agr.3	Macdonald College, Que.	Ste.A. 407, 810
		490 Golden Ave., Ottawa, Ont.	
CORDY, Ruth M.	Lib.Sch.	1019 Sherbrooke St. Montreal	PL 6876
		118 Nicholson St., Valleyfield, Que.	
COREY, Earl E.C.H.	B.A.4	5909A Park Ave., Montreal	CR 7241
CORKRAN, William F.	B.Eng.1	4365 Wilson Ave., N.D.G. Montreal	EL 4278
CORKRAN, Richard G.	Med.1	4365 Wilson Ave., Montreal	EL 4278
CORSE, Wayne Y.	B.Eng.4	3460 West Broadway, Montreal	DE 9431
		South Hero, Vermont.	
COSBY, Ida M.	Grad.Sch.	Royal Victoria College, Montreal	MA 9176
		2101 E. Marshall St.,Richmond,Virginia.	
COSTIGAN, John J.	B.C.L.1	2520 Mayfair Ave., Montreal	DE 0478
COTÉ, Raymond.	B.Com.1	Y.M.C.A. Drummond St., Room 427,Montreal	MA 4171
		112 Murray Ave., Que.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

COTE, Sarto G.	Med. 3	3726 Jeanne-Mance St., Montreal 301 Cowie St., Granby, Que.	HA 5559
COULTER, Joan E.	B.A. 3	66 Aberdeen Ave., Westmount	FI 5307
COUGHLIN, Norma A. M.	B.Sc.1	582 Lansdowne Ave., Montreal	WA 5341
COUREY, Maurice	B.Com.1	720 Pratt Ave., Outremont	AT 6701
COUSENS, Kathleen E.	B.Sc. 1	Bois Franc Rd., St.Laurent,Que	BY 1917
COVO-STRAMBA, Pedro V.	B.Eng.4	3653 University St., Montreal 69 Av.V. Carranza, Mexico City, Mex.	PL 2073
COWLEY, Frank C.	Med. 3	3581 Durocher St., Montreal 220 Powell Ave., Ottawa, Ont.	HA 7778
COWNIE, Douglas H.	Med. 2	4564 Lambert Ave., Montreal	AT 0570
COX, Robert W.	B.Com.1	353 Grosvenor Ave., Montreal	DE 1889
COYLE, Gerald W.	B.Sc. 2	5175 Sherbrooke St.W.Apt.2,Montreal	DE 3932
CRAGG, Gerald R.	Grad. Sch	3531 Lorne Ave., Montreal	PL 3608
CRAGG, Bruce E.	Med. 4	Douglas Hall, Montreal 46 Second Ave., Ottawa, Ont.	BE 2885
CRAIG, Jack L.	Arts P.	1441 Drummond St., Montreal 290 Hunter St.W., Peterborough, Ont.	MA 4171
CRAIG, Gibson E.	Med. 4	Richelieu, P.Q.	Chambly 109
CRAIGWELL, Carlton F.	B.A. 3	3495 Hutchison St., Montreal 48 Argyle St., P.O.S. Trinidad,B.W.I.	PL 5771
CRAWFORD, Thomas I.	Med. 1	548 Prince Arthur St.W., Montreal Pitts Bay Rd., Pembroke, Bermuda.	MA 7845
CREAGHAN, Ellen A.	B.A.3	19 Renfrew Ave., Montreal	WI 9412
CREAGHAN, Mary V.	B.Sc.1	19 Renfrew Ave., Montreal	WI 9412
CRERAR, Malcolm B.	B.Eng.4	485 Sherbrooke St.W., Montreal c/o 50 Buena Vista Rd., Ottawa, Ont.	HA 3721
CREIGHTON, Robert H.J.	Grad.Sch	495 Prince Arthur St.W.,Apt.6,Montreal 515 Elm Ave., Swarthmore, Pa., U.S.A.	LA 8617
CRIGHTON, Agnes M.	Grad.Nurses	Strathcona Hall, Montreal McConnell, Man.	HA 6268
CRISTEL, Jean P. R.	B.Sc.Agr.1	Macdonald College, Que 33 Broadview Ave., Valois, Que.	Ste. A. 407, 810
CROFT, Perry D.	Med.1	3480 Durocher St., Montreal Chester, N.S.	PL 0787
CROFTON, Francis D.L.	Med.3	Douglas Hall, Montreal 930 McClure St., Victoria, B.C.	BE 2885
CROMP, Joseph	B.C.L.	205 Galt Avenue, Verdun	YO 0329
CROSS, Harold Morrey	B.Eng.4	223 Lazard Ave.,Town of Mount Royal	AT 0276
CROSS, Jean M.	B.A. 2	Ste Anne's Hospital, Ste Anne de Bellevue	Ste A. 402
CROSS, Marjorie F.M.	Phy. Ed.1	223 Lazard Ave.,Town of Mount Royal	AT 0276
CROSS, Winifred M.	B.A. 2	D 52. The Gleneagles Apts.,3940 Cote des Neiges Rd., Montreal	FI 5377
CROTEAU, Joseph E.	Med. 2	621 Milton St., Montreal. 186 Church St., Berlin, N.H.	
CROWTHER, Edward J.	B.Eng.2	Y.M.C.A. Drummond St., Montreal 1415 Ross Ave., Winnipeg, Man.	MA 4171
CRUSE, Clement	B.Eng.4	3504 Park Ave.,Apt.15, Montreal 47 Carman Ave., Winnipeg, Man.	HA 8829
CRUTCHFIELD, Charles B.	Dent.3	3647 University St., Montreal Shawinigan Falls, Que.	MA 2806
CULLEN, Andrea M. C.	E.Sc.1	394 Lansdowne Ave., Westmount.	
CULLEN, Vivian H.	B.Eng.1	3535 Shuter St., Montreal 110 College St., Sudbury, Ont.	PL 6021
CULLEY, Shirley M.	B.A. 1	4504 Wilson Ave., Montreal	EL 3423
CULVER, David M.	B.Sc.2	1120 Elgin Terrace, Montreal	PL 7419
CUMMING, Edwin K.	B.Eng.3	3619 University St., Montreal Cayley, Alta.	BE 0684
CUMMING, Moira Lillian.	Phy. Ed. 2	329 Manning Ave., Verdun, Que	YO 3924
CUMMING, Ronald K.	Med.1	389 Beatty Ave., Verdun, Que	YO 3145
CUMMINGS, Cathryn R.	Grad.Nurses	3610 Oxenden Ave., Montreal 89 Burnside Drive, Toronto.	HA 2828
CUMMINGS, Jack L.	B.Eng.2	593 Roslyn Ave., Westmount	EL 5473
CUMMINGS, Willard E.	Med. 4	3477 Shuter St.,Apt.10, Montreal Colebrook, N.H. U.S.A.	LA 9312
CUMMINS, John P. J.	Med. 2	Y.M.C.A. Drummond St. Montreal Ticonderoga, N.Y.	MA 4171
CUMMINGTON, Francis A.	B.Eng.4	6579 Beaulieu St., Montreal	FI 2312
CURRIE, Richard A.	B.Sc.2	55 Cornwall Ave.,Town of Mount Royal	AT 2551

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

CURRIER, Mary I.	B.H.S.3.	Macdonald College, Que.	Ste A. 806, 830
		474 Willbrod St., Ottawa, Ont.	
CURRY, Alayne S.	B.A. 1.	Royal Victoria College, Montreal.	MA 9176
		121 South Park St., Halifax, N.S.	
CURTIN, Gordon L.	B.Sc.Agr.1.	Macdonald College, Que.	Ste A. 407, 810
		4080 Hingston Ave., Montreal.	
CURTIS, Phyllis S. K.	B.A. 1.	5555 Bannantyne Ave., Verdun.	YO 8033
CUTLER, Earl J.	Dent.2.	Cambridge, Vermont.	
CUTTLE, Mary M.	B.A. 1.	758 Lexington Ave., Westmount.	WA 1545
CYR, William H.	B.Eng.4.	521 Clark Ave., Westmount.	YO 0636
		Grande Ligne, Que.	
CZEPIEL, Stanley J.	Med.2.	545 Pine Ave. West, Montreal.	MA 1545
		251 22nd Ave., Patterson, N.J.	
DAGNEAU, Pierre C.	B.Sc.1.	1506 MacKay St., Montreal.	WI 5678
		12 De Bernieres Ave., Quebec, Que.	
DAKIN, Mary E.	Phy.Ed.2.	88 Thurlow Rd., Montreal.	DE 3791
DALL, John W.	B.Eng.3.	57A 15th Avenue, Lachine.	Lachine 991
DAMECOUR, Charles.	B.Eng.4.	6979 St. Valier, Montreal.	CA 7286
DANDO, John A.	Grad. Sch.	Douglas Hall, Montreal.	BE 2885
		198 5th Ave., Longueuil, Que.	
D'ARCY, Richard E.	B.Sc.1.	6922 Terrebonne Ave., Montreal.	EL 3267
DARNLEY, James D.	Med. 4.	Douglas Hall, Montreal.	BE 2885
		75 Terry Place, Bridgeport, Conn.	
DARRAGH, Eric L.	B.A. 3.	4157 Hampton, Montreal.	DE 9562
DARRAGH, James H.	B.Sc.2.	4157 Hampton, Montreal.	DE 9562
DARROCH, Ian McM.	B.Com.2.	144 Cote St.Antoine Rd.,Westmount.	WE 6645
DARWENT, Basil DeB.	Grad.Sch.	4935 Sherbrooke St.W.,Montreal.	
		P.O.S. Trinidad, B.W.I.	
DAVEY, John C.	B.Com.1.	Y.M.C.A. Drummond St.,Room 833.	MA 4171
		720 Parkdale Ave., Ottawa, Ont.	
DAVID, Jas. L.	B.Arch.2.	52 Holyrood Avenue,Outremont.	AT 4985
DAVID, Ruth A.	B.A. 4.	Royal Victoria College, Montreal.	MA 9176
		1222 Nanton Avenue, Vancouver, B.C.	
DAVID, Joseph Jean.	Grad. Sch.	2871 Rosemount Blvd., Montreal.	CR 8435
DAVIDSON, Margaret E.M.	B.Sc.3.	16 Anwoth Rd., Westmount.	WE 6476
DAVIDSON, Mary I.S.	B.A.1.	Royal Victoria College, Montreal.	MA 9176
		Fairway, Montego Bay, Jamaica.	
DAVIES, Andrew K.	Agr.Dip.1.	Macdonald College, Que.	Ste A. 407, 810
		200 MacLaren St., Ottawa, Ont.	
DAVIES, Helene M.	Arts P.	5900 Clanranald Ave., Montreal.	AT 7045
DAVIES, William E.	B.Eng.2.	230 Westminster Ave.,Montreal West.	DE 7425
D'AVIGNON, Francis W.	Med.4.	3580 Durocher St., Montreal.	PL 7519
		Lake Placid, New York.	
DAVIS, Isabel.	B.A.3.	Gomo, Que.	Hud.458
DAWE, Victor G.	B.A. 4.	United Theological College, Montreal.	LA 2803
		Summerville, Bonavista South, Nfld.	
DAWSON, M. Nancy L.	B.A. 2.	4905 Decarie Blvd., Montreal.	EL 2162
DAWSON, Mary C.	B.A. 3.	52 Rosemount Ave., Westmount.	FI 7559
DAWSON, Naomi Carr.	B.Sc.2.	52 Rosemount Ave., Westmount.	FI 7559
DEACON, Ross D. G.	B.Eng.1.	649 De L'Epée Ave., Montreal.	DO 1956
DEAR, Peter V.	B.Eng.1.	c/o Mrs. L. A. Bernard, 3429 Shuter St.	
		127 Roebuck St., Bridgetown,	
		Barbados, B. W. I.	
DECARIE, Maurice.	B.Eng.2.	3533 Oxford Ave., N.D.G.	EL 0344
DECHENE, Earl B.	Arts P.	954 Laurier E., Montreal.	MA 7421
DECKELBAUM, Morris.	B.Eng.3.	895 Outremont Ave., Que.	CA 2886
DEFREITAS,Marcella E.	B.A. 3.	Royal Victoria College, Montreal.	MA 9176
		23 Egmont St., Kingstown, St.	
		Vincent, B. W. I.	
DEGRANDPRE, Jean.	B.C.L.3.	31 Belceil Ave., Outremont.	AT 3502
DEGRANDMONT, Marcel.	B.Eng.2.	3562 Hutchison St., Montreal.	HA 0667
		604 Notre Dame St., Cap-de-la-	
		Madeleine, Que.	
DEITCHER, Nathan.	B.Sc.Agr.4.	Macdonald College, Que.	Ste A. 407, 810
		635 Bloomfield Ave., Outremont.	
DEJERSEY, Murray G.	Grad.Sch.	4330 Royal Ave., Montreal.	EL 1330
DE LA CHEVROTIERE,J.	B.Eng.1.	6588 St. Denis St., Montreal.	CR 7736
DELANEY, Kathleen.	B.A. 2.	554 Prince Arthur St., Montreal.	MA 5466

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

DELBEL, Nello V.	Med. 3.	623 Prince Arthur West, Montreal. 5 Clinton St., Plattsburg, N.Y.	HA 8998
deLONG, Marion L.	Grad.Nurses.	Y.W.C.A. 3429 Ste Famille St. Kentville, Kings Co., N.S.	PL 6807
DEMPSTER, Arthur L.	B.Eng.3.	3592 University St., Montreal. P.O. Box 278, Noranda, Que.	PL 2435
DEMPSTER, William E.	B.Eng.1.	3592 University St., Montreal. 82 Second Ave., Noranda, Que.	PL 2435
DENDY, Christine N.	B.A.1.	4 Richelieu Place, Montreal.	HA 7710
DENENFELD, Edward J.	B.Eng.3.	3507 University St., Montreal. Beardmore, Ont.	PL 0548
DENNIS, Elsie M.	B.Sc.2.	4231 Wilson Ave., Montreal.	DE 9895
DENTON, George D.	Med.1.	3547 University St., Montreal. 12 Paddock St., St.John, N.B.	LA 0789
DESBARATS, Guy.	B.Eng.1.	551 Lakeshore Rd.,Beaurepaire,Que	Pte-Claire 2388
DESCHENES, Leonard A.M.	B.Eng.1.	3511 Shuter St., Montreal. Sayabec, Matapedia Co., P.Q.	LA 0663
DESERRES, Jacques.	Agr.Dip.2.	Macdonald College,Que. 682 Bloomfield Ave., Outremont, P.Q.	Ste A. 407, 810
DESTOUNES, Audrey K.	B.Sc.1.	3622 St. Denis St., Montreal.	LA 4804
DETEMPLE, Muriel E.	B.A. 4.	325 Woodland Ave., Verdun. 321 Water St.E., Cornwall, Ont.	YO 0518
DEVER, Francis X.	Med. 4.	St.Mary's Hospital, Montreal.	AT 4711
DEVERTEUIL, Roger L.	Med. 1.	3635 Lorne Crescent, Montreal. 119 Charlotte St., Port of Spain, Trinidad, B.W.I.	
DEVINE, Francis J.	Grad.Sch.	Loyola College, Montreal.	
DEVITT, Doris B.	B.H.S.1.	MacDonald College, Que. 52 Cooper St., Ottawa, Ont.	Ste A. 806, 830
deVRIES, Joan A.	Med. 1.	5004 Queen Mary Rd., Montreal. 116 Church St., Moncton, N.B.	EX 2139
DIAMOND, George B.	B.Eng.4.	48 Joyce Ave., Apt.16, Montreal.	DO 4597
DICKSON, Marion E.	B.A. 4.	648 Belmont Ave., Westmount, P.Q.	WE 1429
DICKSON, Walter S.	B.Sc.1.	4882 Wilson Ave., N. D. G.	EL 1553
DIGASPARI, Joseph.	Arts P.	6557 St André St., Montreal.	TA 1904
DITKOFSKY, Harry.	B.Eng.3.	4847 Esplanade Ave., Montreal.	DO 1318
DIVER, Muriel R.	Teachers'(Int.).	1065 Argyle Avenue, Verdun.	YO 1608
DIXON, Janet E.	B.A. 1.	3236 Westmount Blvd., Westmount.	WI 8762
DIXON, John H.	Med. 2.	3647 University Street, Montreal. 234 1st St. Medicine Hat, Alta.	MA 2806
DIXON, John Townley.	B.Eng.1.	Apt. 9, 495 Prince Arthur St.,Montreal. Box 850, Chaput Hughes, Ont.	
DIXON, William G.	Med. 1.	42 18th Avenue, Lachine.	Lachine 51
DOANE, David G.	Med. 1.	38 Rockland St., Swampscott, Mass.	
DOBELL, Isabel M.B.	Arts P.Grad.Sch.	112 St. Joseph St., Dorval.	Zone 8 - 370
DOBIE, George E.	Theol.1.	3485 McTavish Street, Montreal. Port Arthur, Ont.	PL 1649
DOBSON, Virginia.	B.A. 4.	3470 Simpson St., Montreal.	FI 2740
DODDS, John W.	B.Sc.4.	5010 Sherbrooke St.W.Apt.6,Montreal.	WA 2969
DODDS, William W.	B.Sc.3.	3489 Atwater Avenue, Montreal.	WE 4019
DOGGRELL, Leslie A.	B.Sc.1.	87 Empire Ave., Greenfield Park.	St. L. 2392
DOHAN, John T.	B.Sc.1.	327 Redfern Avenue, Westmount.	FI 5716
DOHAN, Marlee.	B.A. 2.	327 Redfern Avenue, Westmount.	FI 5716
DOHERTY, Brian G.	B.Sc.2.	111 Sunnyside Avenue, Westmount.	EL 5017
DOHERTY, Lorne H.	B.Eng.3.	6410 Louis Hebert St.,Montreal.	TA 3805
DOLLY, Cyril C.	B.Sc.4.	2047 Union Ave., Montreal. 129 W 119th St., New York.	LA 3380
DOMNAS, Aristotle J.	B.Sc.2.	3533 St. Urbain St., Montreal. 103 St. Anne St., Apt. 6, Quebec, Que.	
DONAHUE, Arthur J.	Arts P.	481 Prince Arthur St.W., Montreal. 141 Leopold Crescent, Regina, Sask.	
DONALD, Mary Jean.	B.Sc.2.	85 Church Hill, Westmount.	WE 1414
DONATELLI, Vincent A.	B.Com.3.	7461 Henri Julien St., Montreal.	CR 0743
DONNELLY, Daniel K.	B.Com.1.	4324 Sherbrooke St.W.,Apt.40,Westmount.	WI 3848
DONNELLY, Jean C.	B.A. 3.	421 Lansdowne Avenue, Westmount.	FI 9989
DONOVAN, John R.	B.Sc.1.	5048 Notre Dame de Grace Ave.,N.D.G.	WA 6613

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Where two addresses are given, the second is the home address.

DORKEN, Herbert O.	B.Sc.1	4771 Sherbrooke St. W., Westmount	EL 6948
DORKEN, Norman W.	B.Sc.1	356 Hickson Ave., St. Lambert	St. L. 496
DORSEY, Jacqueline	B.Sc.2	Royal Victoria College, Montreal	MA 9176
		14 Sutton Place South, New York.	
DORSEY, William R.	Med. 2	3610 Durocher St.,Apt.9, Montreal	PL 4902
		3708 33rd Place, N.W., Washington, D.C.	
DOSCHER, Chris H.J.	B.Sc.1	92 Dufferin Road, Hampstead	EL 8070
DOSNE, Francis	B.Eng.1	Douglas Hall, Montreal	BE 2885
		Hawkesbury, Ont.	
DOUGHERTY, Grace H.	B.A. 2	159 Brock Ave., Montreal West	DE 0369
DOUGHERTY, John P.	B.Sc.1	792 Upper Lansdowne Ave., Montreal	DE 7880
DOUGLAS, Donald E.	Grad.Sch	3455 St. Famille St., Montreal	PL 6356
DOUGLAS, Edmund C.R.	B.Sc.1	4023 Newmarch St., Verdun.	
DOVER, Mina D.	B.A. 3	1675 Lincoln Ave., Montreal	WI 6957
		450 McLaren St., Ottawa, Ont.	
DOYON, A. Rita	Grad.Nurses	3555 University St., Montreal	HA 5664
		16 Smith Avenue, Cornwall, Ont.	
DRABBLE, Bernard J.	B.A. 2	Douglas Hall, Montreal	BE 2885
		Roxborough Apts., Laurier Ave.,Ottawa,Ont.	
DRAPER, A. Edwin	Med.2	2032 Mansfield Ave., Montreal.	
		North Water St., Gallatin, Tenn.	
DRAPER, Dennie C.	Med.1	Douglas Hall, Montreal	BE 2885
		Bedford, Que.	
DRAYTON,Elizabeth A.	B.Sc.2	Royal Victoria College, Montreal	MA 9176
		333 Fairmont Ave., Ottawa, Ont.	
DRAYTON,Katharine M.	B.H.S.2	Macdonald College, Que	Ste A. 806, 830
		333 Fairmont Ave., Ottawa, Ont.	
DRENNAN, Donald.	B.Com.1	511 Clarke Avenue, Westmount	WE 3462
DREW, Herbert L.	Med. 1	1968 St. Luke St., Montreal	WI 6266
		5607 Lexington Ave., Hollywood, Calif.	
DRUCKMAN, Ralph I.	B.Sc.2	201 Outremont Ave., Outremont	CR 5400
DRULAK, Stephen	Med.3	Central Y.M.C.A.,Drummond St.,Montreal	MA 4171
		532 Victor St., Winnipeg, Man.	
DRUMMOND, John A.S.	Med. 4	Douglas Hall, Montreal	BE 2885
		Petrolia, Ont.	
DRUMMOND,Mary-Helen	B.A.2	3843 Old Orchard Ave., N. D. G.	EL 6973
DRURY, L. Anne	Arts P	28 Westminster Ave.N.,Montreal West	EL 9513
DUBENSKY, Alexander	Grad.Sch	762 Sherbrooke St.W., Montreal	LA 2598
		994 Drouillard Road, Windsor, Ont.	
DUCHENE, Helen M.	B.A. 1	Royal Victoria College, Montreal	MA 9176
		3 Lemesurier Ave., Quebec, Que.	
DUFF, James R.	B.Sc.1	79 Wolseley Avenue, Montreal West	DE 8671
DUFF, Marjory	B.A. 3	79 Wolseley Avenue, Montreal West	DE 8671
DUFFIN, Samuel G.	Agr.Dip.2	Macdonald College, Que	Ste.A. 407, 810
		5531 11th Ave., Rosemount, Que.	
DUFFY, Gerald O.	B.Sc.1	436 Berwick Ave.,Town of Mount Royal	AT 0781
DUMONT, Evangeline R.	Grad.Nurses	8669 De Gaspé St., Montreal	DU 0915
		12 Clark's Ave., St. Johnsbury, Vt.	
DUNDASS, Charles H.	Dent.4	1624 Sherbrooke St.W., Montreal	FI 6541
DUNDASS, George M.	Dent.2	1624 Sherbrooke St.W., Montreal	FI 6541
DUNLOP, John G.	B.Sc.2	Apt.47,1509 Sherbrooke St.,Montreal	FI 9403
DUNN, Betty Frances	B.A. 3	3545 Grey Ave., Montreal	EL 0814
DUNNE, Gerald J.	B.Eng.3	Gervais Ave., Otterburn Park, Que.	
DUNPHY, Hellen R.M.	Phys.Ed.1	3796 Draper Ave., Montreal	DE 9013
DUNSWORTH, Lorne C.	B.Eng.3	620 Prince Arthur St., Montreal	LA 9489
		11239 - 63rd St., Edmonton, Alta.	
DUPERRÉ, Guy V.	B.Com.3	5771 Trans Island Ave., Montreal	AT 6464
		162 Price St., Chicoutimi,Que.	
DUPONG, Henriette F.	Arts P	555 Roslyn Ave., Montreal	DE 1459
DUPRE, Suzanne C.	Phys.Ed.2	256 Querbes Ave., Outremont	CA 7045
DURHAM, Barbara J.	B.Sc.1	4874 Grosvenor Ave., Montreal	WA 4026
DURNFORD, Donald P.	B.Com.3	1597 Pine Ave. W., Montreal	FI 8270
DUSSAULT, Henri Paul.	B.Sc.(Agr.)2	Macdonald College, Que	Ste A. 407, 810
		10782 Henri Julien St., Montreal.	
DUTHIE, Elizabeth A.	B.Sc.2	81 Holton Ave., Westmount	FI 4118
DUTHIE, Phyllis E.	B.A. 4	81 Holton Ave., Westmount	FI 4118
DWANE, Imogene K.	B.Sc.2	3692 St.Urbain St., Montreal	MA 6780
DYSART, Edna L.	Grad.Nurses	772 Sherbrooke St.W., Montreal	HA 6268
		Sussex, N.B.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

EADIE, Frank S.	B.Sc.2	4380 Mayfair Avenue, N. D. G.	DE 8667
EARLE, Jack M.	Dent.1	4680 Earnscliffe Ave., Montreal	EL 4953
EASON, Marjorie M.	B.H.S.4	Macdonald College, Que.	Ste A. 806
		Ste Anne de Bellevue, Que.	
EASTHAM, Arthur M.	Grad.Sch	495 Prince Arthur St.West, Apt.6, Montreal	LA 8617
		4569 1st Ave.W., Vancouver, B.C.	
EASTMAN, Donald M.	B.Sc.(Agr.)1	Macdonald College, Que.	Ste A. 407
		241 Carling Ave., Ottawa, Ont.	
EASTMAN, Phyllis L.	Arts P	5519 Wellington St., Verdun	YO 0871
EASTWOOD, John R.	B.Eng.1	3555 University St., Montreal	HA 5664
		115 Second Avenue, Ottawa, Ont.	
EATON, Marguerite	B.A.1	Royal Victoria College, Montreal	MA 9176
		41 9th St., Shawinigan Falls, Que.	
EBBITT, May H.	B.A.2	5170 Cartier St., Montreal	AM 2405
EDELMANN, Franz	B.Sc.2	3525 Durocher St., Montreal	LA 9601
EDEN, William A.	B.Sc.1	688 Grosvenor Ave.,Westmount	EL 4909
EDGELL, Peter G.	Med.4	369 Clarke Ave.,.Apt.4, Montreal	FI 4412
EDMISON, Ralph S.	Dent.4	3581 University St., Montreal	MA 3842
EDWARD, Joan C.	Arts P	16 Jasper Ave.,Town of Mount Royal	AT 4156
EDWARDS, Clifford E.	Grad.Sch	Douglas Hall, Montreal	BE 2885
		Bridgetown, N.S.	
EDWARDS, Derek Maurice	B.Eng.2	79 Percival Ave., Montreal West	WA 5377
EDWARDS, Frank H.	B.Eng.2	79 Victoria Ave., Longueuil	Long. 2645
EDWARDS, Frank J.	Med.4	1441 Drummond St.,Montreal	MA 4171
		Box 537, Cranbrook, B.C.	
EDWARDS, Mary Maxwell.	B.Com.3	Royal Victoria College	MA 9176
		55 MacKay St., Ottawa, Ont.	
EDWARDS, Megan.	B.Sc.3	68 Bruce Ave., Westmount	WI 8814
EDWARDS, Norman A.	B.Eng.1	3168 St. Antoine St., Montreal	WI 9906
EDWORTHY, Thomas G.	B.Sc.1	103 5th Ave.,St.Eustache sur le lac.	
EGAN, Marie J.	Grad.Sch	1025 Mount Royal Boulevard, Montreal.	
		Marymount School,10643 Sunset Blvd., Los Angeles, Calif.	
EIDINGER, Stanley L.	B.A.4	3611 Park Ave., Montreal	HA 5810
EIGER, Irena Z.	Grad.Sch	495 Prince Arthur St.W., Montreal	LA 3870
		Warsaw, Poland.	
EIN, Reva L.	B.A.2	41 Chesterfield Ave., Montreal	EL 9564
EISER, Herman M.	B.Sc.(Agr.) 2	Macdonald College, Que.	Ste A. 407, 810
		67 Manrese Ave., Quebec, Que.	
ELDER, Elizabeth M.	B.Sc.3	18 DeCasson Road, Montreal	FI 2627
ELDER, John M.	B.Sc.1	18 DeCasson Road, Montreal	FI 2627
ELDER, Joyce D.	B.A. 1	108 Strathearn Ave., Montreal West.	
ELDER, Maurice J.	Med. 3	Douglas Hall, Montreal	BE 2885
		Whitney St., Massena, N.Y.	
ELLINGTON, Alton C.	B.Sc.(Agr.) 1	Macdonald College, Que.	Ste A. 407, 810
		4 Lockett Ave.,Kingston,Jamaica.,B.W.I.	
ELLIOTT, C. Joann.	B.A.1	4881 Melrose Ave., N. D. G.	
ELLIOT, Gertrude J.	B.Sc.4	3538 Grey Ave., Montreal	DE 6615
ELLIOT, Marjorie J.	Teachers'(Elem.)	772 Sherbrooke St.W., Montreal	HA 6268
		Howick, Que.	
ELLIOTT, Arthur E.	B.Com.3	3437 Peel St., Montreal	PL 1674
		161 24th Avenue, Lachine	Zone 8-586
ELLIOTT, Emery H.	Agr.Dip.2	Macdonald College, Que.	Ste A. 407, 810
		R.R. 3, Shawville, Que.	
ELLIOTT, Harriett E.	Grad.Sch	1522 Sherbrooke St.W., Montreal.	
		Berwick, King's Co., N.S.	
ELLIS, C. Douglas.	B.A.3	2681 Holt Street, Rosemount	FR 6806
ELLIS, Donald K.	B.Sc.2	616 Grosvenor Ave., Montreal	DE 7177
ELLISON, Marjorie.	B.A.3	1227 Sherbrooke St.W., Montreal	LA 2952
EMMERSON, Lawrence R.	B.Sc.(Agr.) 2	Macdonald College, Que.	Ste A. 407, 810
		Bristol, Que.	
ENGLER, Shirlie	B.A.1	4121 Esplanade Ave., Montreal	HA 1555
ENTIN, Martin A.	Med.1	Apt.1,1267 Bernard Ave., Outremont	CA 2325
EPSTEIN, Norman	B.Eng.2	Apt.3, 615 Bloomfield Ave.,Outremont	CA 3206

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

EPSTEIN, Samuel	Grad.Sch.	5229 Jeanne Mance, Montreal	CR 0079
		393 Magnus Ave., Winnipeg, Man.	
ESCOFFERY, Michael I.	B.Eng.3.	3507 University St., Montreal	PL 0548
		Browns Town, Jamaica, B.W.I.	
ESFAKIS, Andrew G.	B.Sc.3.	Douglas Hall, Montreal	BE 2885
		East St. Nassau, N.P., Bahamas.	
ESFAKIS, Ileana C.	B.A.1.	Royal Victoria College, Montreal	MA 9176
		P.O.Box 248, East St., Nassau, Bahamas.	
ESKICI, Omer	B.Eng.4.	3465 Cote des Neiges Rd.Apt.80, Montreal	FI 5010
		Kayseri, Turkey.	
ESTRADA, Roberto L.	Med.3.	481 Prince Arthur St.W., Montreal	HA 5617
		Ave.Simon Bolivar, 182, Guatemala, C.A.	
EVANS, Samuel	B.Sc.2.	5124 Jeanne Mance, Montreal	CA 4388
EVERETT, Barbara J.	B.H.S.3.	Macdonald College, Que.	Ste A. 806, 830
		St. Stephen, N.B.	
EVERETT, Francis E.	B.Eng.3.	1-12th Ave.,St. Eustache sur le Lac, Que.	
EWING-Chow, Gerald	B.Sc.1.	3480 Durocher St., Montreal.	
		22 Lamaha St.,Georgetown,British Guiana.	
EWING, Kenneth H.	B.Eng.2.	Delson Station, Que.	
		1369 Bernard Rd., Windsor, Ont.	
FABRIZIO, Edward C.	Dent.1.	3471 Hutchison St., Montreal.	
		68 Main St., Montpelier, Vt.	
FAINER, E. Goldie	B.Sc.2.	881 Hartland Ave., Montreal	AT 2814
FAINER, Percy	B.Sc.1.	229 St. Joseph Blvd.W.	CA 0979
		636 Main St., St. John, N.B.	
FAINSTAT, Michael M.	B.Eng.3.	4533 Esplanade Ave., Montreal	PL 4968
FAERMAN, Pola J.	B.A.1.	4364 Westmount Ave., Westmount	FI 8886
FALK, Hans	B.Sc.3.	4162 St.Urbain St., Montreal	BE 2132
FALKNER, Dorothy J.	B.A.4.	Royal Victoria College, Montreal	MA 9176
		149 Ontario St.,St.Catharines,Ont.	
FANCY, Henry F.	Med.1.	62 Milton St., Montreal	PL 1307
		Gorham, N.H.	
FARADAY, Gordon	Theol.2.	3485 McTavish St., Montreal	PL 1649
		274 Clarence St., Ottawa.	
FARISH, James R.	Med.4.	762 Sherbrooke St.W., Montreal	LA 2598
		6430 Angus Drive, Vancouver, B.C.	
FARLINGER, Donald C.	B.A.4.	Douglas Hall, Montreal	BE 2885
		New Liskeard, Ont.	
FARLINGER, Fraser A.	B.Sc.3.	Douglas Hall, Montreal	BE 2885
		New Liskeard, Ont.	
FARMER, Alan T.	B.Eng.3.	30 Maple Ave.,Ste Anne de Bellevue	Ste A.687
FARMER, Eric W.	Grad.Sch.	Can.Marconi Co.,Town of Mt Royal,Que.	AT 9441
		Ste Therese de Blainville, Que.	
FARMER, Florence A.	Grad.Sch.	30 Maple Ave.,Ste Anne de Bellevue	Ste A.687
FARMER, H. Frank	Med. 1.	3543 Lorne Ave., Montreal	MA 6507
		The Lodge, St. Michael, Barbados, B.W.I.	
FARNSWORTH, Ruth	Grad.Nurses.	1510 MacKay St., Montreal	FI 5911
		Edam, Saskatchewan.	
FARQUHAR, Fulton J.	B.Eng.2.	3434 McTavish St., Montreal	PL 6773
		109 Oakland Road, Halifax, N.S.	
FARRELL, Joseph L.Ralph.	B.Sc.1.	1411 Mackay St., Montreal	
		P.O.Box 20,Chambly Canton,Que.	Chambly,605 r-4
FARRELL, Kathleen W.	B.A.1.	Royal Victoria College	MA 9176
		1890 Marine Drive, Vancouver, B.C.	
FARRINGTON, Hubert A.	B.A.1.	3525 University St., Montreal	MA 4352
	Music P.	East Shirley St.,P.O.Box 96,Nassau,Bahamas.	
FAUGHNAN, B. N.	B.A.2.	333 Mommouth Ave.,Town of Mt.Royal	AT 0746
FAUGHNAN, Margaret K.	B.A.3.	333 Mommouth Ave.,Town of Mt.Royal	AT 0746
FAY, Kevin J.	Med.4.	495 Prince Arthur W.,Apt.2	MA 3983
		157 Church St.W., Roxbury, Mass.	
FEINDEL, William H.	Med.1.	Montreal Neurological Institute	PL 12517 Loc.281
		Bridgewater, N.S.	
FELDMAN, Leon	B.A.2.	367 Edward Charles Ave.,Montreal	CR 9519
		203 Chapel St., Ottawa, Ont.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

FELSING, Edna H.	Grad. Nurses	Children's Memorial Hospital, Cedar Ave., Montreal	FI 4661
		565 Brunswick St., Fredericton, New Brunswick.	
FERENCZ, Charlotte I.	Med. 1	227 Westminster Ave., Montreal West	EL 9043
FERGUSON, Barbara A.R.	B.Arch. 3	642 Murray Hill, Westmount	FI 8312
FERGUSON, Grace G.	B.Sc. 2	7302 Terrebonne St., Montreal	EL 8389
FERGUSON, John L.	B.C.L. 1	3436 Montclair Ave., N.D.G.	EL 3998
FERGUSON, Thomas H.	B.Sc.Agr. 1	Macdonald College, Que.	Ste A. 407, 810
		5460 Duquette Ave., Montreal, Que.	
FIELD, Eloise J. D.	B.A. 1	4828 Wilson Ave., Montreal	WA 5945
FILION, Marcel	B.Eng. 3	2586 Philips Ave., Montreal	AT 0232
FILION, Roger	B.Com. 2	823 Outremont Ave., Outremont	CA 2943
FILLMORE, Eric E.	Med. 3	1433 Bishop, Apt. 11, Montreal	HA 5731
		Advocate, Hbr. N.S.	
FINCH, John C.	B.Sc. 1	5125 Westbury Ave., Montreal	EX 1249
FINDLAY, Helen M.	B.A. 1	732 Lexington Ave., Westmount	EL 1726
FINDLAY, Robert G.	B.Sc. 2	732 Lexington Ave., Westmount	EL 1726
FINE, Vivian R.	B.A. 1	5434 Grove Hill Place, Montreal	EL 4741
FINEMAN, Manuel N.	Grad.Sch.	2247 Maplewood Ave., Apt. 6, Montreal	AT 2754
FINESTONE, Harold	Grad.Sch.	3446 Vendome Ave., Montreal	DE 9783
FINESTONE, Lillian E.	B.A. 1	5609 Canterbury Ave., Montreal	AT 4442
FINGLAND, Willian N.	B.Sc. 1	657 Cote St Antoine Rd., Westmount	EL 4765
FINKELSTEIN, Harry	B.Com. 3	702 B. Champagneur Ave., Montreal	DO 5702
FINLAY, Robert C.	B.A. 2	6120 Terrebonne Ave., Montreal	WA 5547
FINN, George C.	Med. 3	51 Brighton St., San Francisco, Calif.	
FINNEMORE, Margaret	B.A. 1	112 Balfour Ave., Town of Mt.Royal	AT 4527
FINNEMORE, Mary A.	B.A. 1	112 Balfour Ave., Town of Mt.Royal	AT 4527
FIRESTONE, Otto J.	Grad.Sch.	Apt. 19, 366 Laurier Ave.W., Ottawa, Ont.	
		Oxford, England.	
FIRLOTTE, William R.	B.Sc. 2	3500 Hutchison St., Montreall	HA 7548
		28-7th St., Noranda, Que.	
FISCH, Gerald G.	B.Sc.Agr. 3	Macdonald College, Que.	Ste A. 407, 810
		214 Ava Rd., Toronto, Ont.	
FISCHER, Carl E.	B.Arch. 1	5352 Park Ave., Apt. 37, Montreal	CA 3797
FISHER, Francoise E.	B.Sc. 4	4870 Cote des Neiges Rd., Montreal	AT 7841
FISHER, Margaret C.	B.Sc. 1	56 Belvedere Circle, Westmount	FI 1411
FISHER, Herbert	Grad.Sch.	2063 Stanley St., Montreal	MA 9038
		1320 Alberni St., Vancouver, B.C.	
FISHER, Maurice P.	Arts P.	Sackville, N.B.	
FISKE, Clarence A.	B.A. 1	976 Moncrieff Rd., Town of Mt.Royal	AT 4354
		Martintown, Ont.	
FITCH, Joshua H.	B.Sc. 1	339 Cote St.Antoine Rd., Montreal	WE 4003
FITCH, Maxwell	Med. 4	4438 Girouard Ave., Montreal	WA 3780
FITZGERALD, Joseph J.	B.Eng. 2	1963 Kent Ave., Montreal	AT 8913
FITZGERALD, Maurice	Med. 4	3617 Lorne Crescent, Montreal	LA 8013
		559 Victoria Rd., Sydney, N.S.	
FITZHARDINGE, Eliz.R.	Teachers' Elem.	265 Union Blvd. St. Lambert, Que.	Zone 7-303
FITZPATRICK, Harold J.	B.C.L. 1	716 Champagneur Ave., Montreal	CA 1081
FITZPATRICK, James G.	B.Sc. 2	105 Sunnyside Ave., Westmount	EL 4509
FITZPATRICK, L. F.	B.Eng. 4	144 Percival Ave., Montreal West.	
FLAHERTY, Richard N.	B.Eng. 2	2560 Montclair Ave., Montreal	DE 8397
FLANDERS, Barbara R.	B.A. 1	4042 Marlowe Ave., Montreal	EL 8050
FLEMING, Kelvin O.	Med. 1	521 Prince Arthur St.West, Montreal	HA 1839
		5788 Cypress St., Vancouver, B.C.	
FLEMMING, William D.	B.Eng. 2	3647 University St., Montreal	MA 2806
		67 Queen St., Truro, N.S.	
FLEMING, William R.	B.Com. 1	3030 Trafalgar Ave., Montreal	FI 6160
FLETCHER, Harold B.	Med. 4	Douglas Hall, Montreal	BE 2885
		165 Queen St., Sherbrooke, Que.	
FLOOD, Terence C.	B.Sc. 1	1500 McGregor St., Montreal	FI 4656
FOCHS, Yvonne O.	B.H.S. 1	Macdonald College, Que.	Ste A. 806, 830
		383 Roslyn Ave., Westmount, Que.	
FOKSCHANER, Peter	B.Eng. 1	4414 Girouard Ave., Montreal	WA 3766
FONSECA, Owen W.	B.A. 2	456 Pine Ave. West, Apt. 5B, Montreal	PL 5776
		21 Haining Rd., Cross Rds., P.O. Jamaica, B.W.I.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

FOOTE, William J.O.	B.Sc.2	3485 McTavish St., Montreal	PL 1649
		"Belleville" Savanna La Mar,Jamaica,B.W.I.	
FORAN, Michael R.	Grad.Sch.	3474 McTavish St., Montreal	MA 7268
		Unity, Saskatchewan.	
FORBES, John A.	B.Sc.2	1474 Fort St.,Apt.5, Montreal	WI 0330
FORBES, Ruth P.	B.Sc.3	420 Wiseman Ave., Outremont	CA 3883
FORD, Beryl M.	B.A.3	410 Stanstead Ave.,Town of Mt.Royal	EK 1347
FORD, Helen M.	B.A.2	456 Pine Ave. West	LA 6052
FORD, William R.	B.Eng.3	3647 University St., Montreal	MA 2806
		1205 Fort St. Apt.53, Montreal.	
FORTIER, Norman L.	Med.4	3612 Durocher St., Montreal	HA 4781
		55 Mt. Forist St., Berlin, N.H.	
FORTIER, Pierre.	B.Eng.1	209 Laurier, Hull, Que.	
FORTIN, Clement H.	B.Com.2	3619 University St., Montreal.	
		Windsor Hotel, Granby.	
FORTIN, Jean-N.	B.C.L. 1	4086 Marlowe Ave., N.D.G.	DE 7944
FOSTER, Joanne M.	B.A.1	483 Merton Ave., St. Lambert	St L. 3478
FOSTER, June	B.A.1	331 Egan Ave., Verdun	YO 1678
FOURNIER, Gabriel M.	Grad.Sch.	538 St Catherine Rd., Outremont	CA 7152
FOWLER, Anne	B.Sc.2	1555 Mackay St., Montreal	PL 1337
		74 Ottawa St., Granby, Que.	
FOWLER, Charles A.E.	B.Eng.3	3437 Peel St., Montreal	PL 1674
		67 Norwood St., Halifax, N.S.	
FOX, Charles J.	B.Eng.1	3581 Durocher St., Montreal	HA 7778
		8 East Kings House Rd.,Half-way Tree P.O., Jamaica, B.W.I.	
FOX, Helen C.	B.H.S.1	Macdonald College, Que.	Ste A. 806,
		6 Orchard Rd.,Cross Rds.,Jamaica,B.W.I.	830
FOX, Hyman	B.Eng.1	5884 Durocher Ave., Montreal	CR 7550
FOX, Lester L.	Grad.Sch.	4899 Henri Julien St., Montreal	BE 3644
FOY, George C.	B.Sc.1	71 Clandeboye Ave., Westmount	FI 7750
FOYLE, May	B.Sc.1	3429 Ste Famille St., Montreal	PL 6807
		196 Rue Sacré Coeur,St.Joseph d'Alma,P.Q.	
FRANCIS, Marian G.	Med.1	1620 Cedar Ave., Montreal	FI 6209
FRANK, George W.McC.	B.Com.1	6268 De Normanville St.,Montreal	DO 1501
FRANK, Gerald.	B.Sc.2	28 Joyce Ave., Outremont	CA 4302
FRANK, Raizel	Music P.	4600 Hutchison St., Montreal	DO 2949
FRANKEL, Joe	B.Eng.1	2211 St.Catherine St.W., Montreal	WI 6345
FRANKENBERG, Beatrice	B.Sc.1	5154 Notre Dame de Grace Ave.,N.D.G.	WA 5548
FRANKLIN, Martin	Music P.	5381 Grovehill Place, Montreal	DE 0753
FRANKOWSKI, Stefan S.R.	B.Sc.1	3465 Cote des Neiges Rd.,Apt.61,Montreal	FI 3085
FRASER, Alistair G.	B.A.2	57 Rosemount Crescent, Westmount	FI 2297
FRASER, Frank C.	Grad.Sch.	Douglas Hall, Montreal	BE 2885
		Bear River, N.S.	
FRASER, Robert F.	B.Arch.3	1210 Pine Avenue W., Montreal	HA 0098
		329 Catherine St.,Fort William,Ont.	
FRASER, Teresa B.	B.H.S.1	Macdonald College, Que.	Ste A. 806,
		St. Marys St., Antigonish, N.S.	830
FRASER, Willard S.	B.Sc.(Agr.)4	Macdonald College, Que.	Ste A. 407,
		R.R.No.2, Westville, Pictou Co.,N.S.	810
FREDERICK, Mary T.	B.Sc.3	4318 St.Catherine St.W., Montreal	WE 5847
FREEMAN, Cecily H.	B.Sc.1	2095 Lincoln Ave., Apt.10,Montreal	WI 0994
FREEMAN, John E.	B.Eng.4	Douglas Hall, Montreal	BE 2885
		Iroquois Falls, Ont.	
FREEMAN, Margaret L.	Phys.Ed.2	66 Courcelette Ave., Montreal	TA 6511
FREEMAN, Paul O.	B.Eng.4	Apt.12,4951 Coronet Ave.,Montreal	AT 6708
FREEMAN, Rex M.	B.Eng.3	Apt.10,2095 Lincoln Ave.,Montreal	WI 0994
FREISENBRUCH,Richard E.	B.Eng.2	Berkeley Hotel,Sherbrooke St.W., Montreal.	
		Mt.Vernon,Pembroke West, Bermuda.	
FRENCH, Arthur D.	B.Sc.1	5975 Terrebonne Ave., Montreal	EL 9904
FRICKER, Kathleen M.	B.A.3	Royal Victoria College, Montreal	MA 9176
		Bedford, Que.	
FRIEDMAN, Herbert D.	B.Com.3	3420 Marlowe Avenue, Montreal	DE 7374

NAME FACULTY AND YEAR ADDRESS TEL. NO.

Where two addresses are given, the second is the home address.

FRIEDMAN, James.....B.Sc.1.....Apt.10,2815 Maplewood Ave.,Outremont...AT 7071
FRIEDMAN, Orrie M.....Grad.Sch.....Apt.10,2815 Maplewood Ave.,Outremont...AT 7071
FRIEDMAN, Sydney M.....Grad.Sch.....Apt.32,2101 University St.,Montreal....LA 1025
FRIEDMAN, Valerie.....Med.1.....1489 Mountain St., Montreal.....HA 5470
Box 210, Noranda, Que.
FRIEFELD, Marion I.....B.A.3.....3581 St. Famille St., Montreal.....PL 7011
FRISCH, Anthony J.....B.Sc.3.....1958 St. Luke St., Montreal.....WI 2706
Woldingham, Surrey, England.
FRY, R. Milton.....B.Eng.4.....37 Dufferin Road, Hampstead.....EL 5936
FRYERS, Lillian M.....Grad.Nurses.....772 Sherbrooke St.W.,Montreal.....HA 6268
336 Balfour Ave., Winnipeg, Man.
FULLER, Frank D.....Med.1.....3480 Durocher St., Montreal.....PL 0787
310 Belmont Road, Reno, Nev.
FULLERTON, Henry D.....B.Sc.1.....517 Pine Avenue W., Montreal.....MA 2948
100 Bagot St., Cobourg, Ont.
FULTON, Nora C.....B.H.S.3.....Macdonald College, Que.....Ste A. 806,
Chesterville, Ont. 830
FUNG-a-LING,Claude A...B.Sc.1.....3480 Durocher St., Montreal.
Mackenzie, Demerara, British Guiana.
FURLONG, Helen K.....Grad.Nurses.....772 Sherbrooke St.W., Montreal.....HA 6268
172 Cobourg St., Ottawa, Ont.
FUTTERER, Edward.....B.Eng.2.....3433 Hutchison St., Montreal.....LA 4790
6 Wilgar Road, Toronto, Ont.
FYFE, Ronald M.....Med.4.....4831 Rosedale Avenue, N.D.G.....DE 2257

GACHET, Yolande G.....B.Sc.2.....1808 Mount Royal Ave., E., Montreal....AM 6065
GAGNE, Louis L.....B.Eng.2.....7238 St. Denis St., Montreal.
GAGNE, Raymond C.....B.A. 1.....10645 Peloquin St., Montreal.
GAGNON, Gilles.....B.Eng.1.....386 Wiseman Ave., Outremont.....CA 4253
GAGNON, Paul.....B.Eng.2.....386 Wiseman Ave., Outremont.....CA 4253
GALBRAITH, Cecily M....B.Sc.2.....5557 Queen Mary Rd., Hampstead.....DE 4949
GALE, Desmond A.....B.A.2.....3485 McTavish St., Montreal.....PL 1649
Ednam,St.Matthias Gap, Barbados,B.W.I.
GALINSKY, Irving.....B.Sc.(Agr.) 2...Macdonald College, Que.....Ste A. 407,
202 Robert St., Toronto, Ont. 810
GALLOWAY, H. Sydney....B.Eng.1.....5199 Globert Ave., N. D. G.....EL 2800
GALLOWAY, Margaret E...B.H.S.2.....Macdonald College, Que.....Ste A. 806,
1585 West 15th St., Vancouver, B.C. 830
GALPIN, Richard R.....Med.4.....Royal Edward Institute,St.Urbain St....LA 8153
1746 West 10th Ave., Vancouver, B.C.
GANS, Nathan.....B.Eng.2.....4389 St. Lawrence St., Montreal.....PL 9760
GARBER, Sidney.....B.Eng.3.....5590 Snowdon Avenue, Montreal.....EL 1635
GARBER, Simon A.....B.Sc. 1.....4338 Montrose Ave., Westmount.....WE 5882
GARCEAU, J. Gilles.....B.Eng.4.....3567 Peel St., Montreal.....LA 6869
17 Place du Marché, Shawinigan Falls, Que.
GARCELON, Alonzo H.....Dent.4.....477 Prince Arthur St., Montreal.
2 Gaff St., Auburn, Me.
GARDINER, Florence E...B.H.S.3.....Macdonald College, Que.....Ste A. 806,
211 Clemow Ave., Ottawa, Ont. 830
GARDNER, John M.....B.Eng.1.....6 Murray Avenue, Westmount.....WI 8843
GARDNER, Joseph A.F....Grad.Sch.....2063 Stanley St., Montreal.....MA 9038
Nakusp, B.C.
GAREAU, Leo E. A.....B.Eng.4.....5509 Durocher Ave., Outremont.....CR 0311
GARMAISE, Boris.....B.C.L.....715 Stuart Avenue, Outremont.....CA 6581
GARMAISE, David L.....Grad.Sch.....5189 Durocher Avenue, Outremont.....DO 1085
GARMAISE, Ruth.....B.A.2.....4266 Royal Avenue, N. D. G.....EL 8170
GARRIOCH, Gordon G.....Med.2.....3483 Peel Street, Montreal.....LA 0643
1342 Fred St.,N. Battleford, Sask.
GARSON, Rose E.....Arts P.....5602 Hutchison St., Montreal.....CR 0570
P.O. Box 3, Yarmouth, N.S.
GAULT, Mathew Henry....B.Sc.1.....3470 McTavish St., Montreal.....PL 6865
GAULTON, Gordon C.....Med. 4.....3461 Hutchison St., Montreal.....HA 8622
17 St. Paul St., Saint John, N.B.
GAUTHIER, Edouard A....B.Eng.2.....645 Querbes Ave., Outremont.....CA 6865
GAUTHIER, Ernest J.....Grad.Sch.....3749 Jeanne Mance St., Montreal.
451 Ridout St.N., London, Ont.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

GAUTHIER, Fernand M.	Agr.P.	Macdonald College, Que.	Ste A. 407, 810
		4943 Notre Dame St.W., Montreal.	
GAUTHIER, Guy.	B.Eng.1.	5941 Lasalle Blvd., Verdun.	YO 1489
GAUVIN, William.	Grad.Sch.	6038 Coolbrook Avenue, Montreal.	AT 8702
GAUVREAU, Georges.	B.C.L.2.	124 Ave. Park, Quebec City, Que.	
GEDDES, Leslie A.	B.Eng.2.	543 Mercille Ave.,St.Lambert,Que.	St.L. 561
GEE, H.S.Y.	B.Eng.2.	Sam Kee and Co., 1015 Clark St., Montreal.	LA 2571
GEE, Roy W. C.	B.Eng.3.	1015 Clark St., Montreal.	LA 2571
		29 Pender St. E., Vancouver, B.C.	
GELFAND, Moses.	B.Sc.2.	774 Davaar Ave., Outremont.	CR 0078
GENDRON, Louis H.	B.Eng.1.	56 Nelson Ave., Outremont.	DO 6359
GENS, Edmée J.	B.A.3.	660 Dollard Blvd., Montreal.	CA 4071
GENTLES, Elizabeth S.	B.Com.1.	Royal Victoria College, Montreal.	MA 9176
		2080 Pendrell St., Vancouver, B.C.	
GEORGES, Philip T.	B.A.1.	3485 McTavish St., Montreal.	PL 1649
		Cross St., Roseau, Dominica, B.W.I.	
GERSON, Toba.	B.A.4.	5460 Esplanade Avenue, Montreal.	DO 4428
GERSOVITZ, Benjamin.	B.Eng.3.	457 Argyle Ave., Westmount.	WE 3579
GERSOVITZ, Florence.	B.Sc.2.	457 Argyle Ave., Westmount.	WE 3579
GERST, Marcel.	B.Eng.1.	Apt.25, 1489 Mountain St.,Montreal.	MA 9634
GERTLER, Max M.	Med.4.	4875 Lacombe Ave., Montreal.	AT 7680
		420 Ave. E., South Saskatoon, Sask.	
GERVAIS, Arthur J.	B.Sc.1.	4330 Wilson Avenue, N. D. G.	EL 2563
GHENT, Emmanuel Robert.	B.Sc.1.	1324 St. Viateur Ave., W., Montreal.	CA 3338
GHERMAN, Ruth L.	B.A.4.	4815 Queen Mary Rd.,Apt.29, Montreal.	EX 2575
GIBB, Elizabeth.	B.A.1.	656 Roslyn Ave., Westmount.	EL 2469
GIBBS, Cicely G. M.	B.A.1.	4118 Western Ave., Westmount.	FI 4900
GIBSON, Stanley J.	B.A.4.	542 Sherbrooke St.W., Montreal.	
		40 Gore St.W., Perth, Ont.	
GIGNAC, Maurice J.	B.Sc.(Agr.) 2.	Macdonald College, Que.	Ste A. 407, 810
		36a 5th St.,Shawinigan Falls, Que.	
GIGOT, Albert F.	Med.2.	3483 Peel St., Montreal.	LA 0643
		Beattie Gold Mines, Duparquet, Que.	
GIGOT, Nancy P.	B.A.4.	1488 Crescent St., Montreal.	HA 8705
		Beattie Gold Mines, Duparquet, Que.	
GILBERT, John E.	Med.4.	Douglas Hall, Montreal.	BE 2885
		16 Choate Road, Hanover, N.H.	
GILCZEWSKA, Janina F.	Phys.Ed.1.	533 Prince Arthur St., Montreal.	MA 2530
GILCHRIST, Evelyn E.	B.H.S. 4.	Macdonald College, Que.	Ste A. 806, 830
		54 Glendale Ave., Ottawa, Ont.	
GILES, Patricia M.	Teachers'(Elem)	383 Grosvenor Ave., Westmount.	EL 8097
GILL, Eric P.	Dent.2.	3547 University St., Montreal.	LA 0789
		499 St. Patrick St., Victoria, B.C.	
GILL, Lesley A.	B.A.3.	3542 Marcil Ave., N. D. G.	DE 4835
GILL, Dorothy R.	Grad. Nurses.	772 Sherbrooke St. W., Montreal.	HA 6268
		Pictou, N.S.	
GILLESPIE, Andrew E.	B.Sc.1.	Douglas Hall, Montreal.	BE 2885
		1326 Manor Road, Victoria, B.C.	
GILLESPIE, E. Clark.	Med.1.	3581 University St., Montreal.	MA 3842
GILLESPIE, Ronald J.	B.Sc.(Agr.) 3.	Macdonald College, Que.	Ste A. 407, 810
		256 North St., Moncton, N.B.	
GILLESPIE, William G.	B.Sc.2.	4625 Royal Avenue, N.D.G.	EL 8829
GILLICK, Edward E.	Med.2.	3478 McTavish St., Montreal.	PL 7412
		929 Ferry Ave.,Niagara Falls, N.Y.	
GILLON, William S.	B.Eng.4.	Douglas Hall, Montreal.	BE 2885
		378 Elm St., Winnipeg, Man.	
GILMAN, Helen.	B.Sc.3.	Royal Victoria College, Montreal.	MA 9176
		1119 Portner Rd.,Alexandria,Virginia.	
GILMOUR, Joan M.	B.Sc.1.	5620 Queen Mary Rd.,Montreal.	EL 1516
GILPATRICK, Claude H.	B.Sc.(Agr.)2.	Macdonald College, Que.	Ste A. 407, 810
		Gatineau, Que.	
GILPATRICK, John D.	B.Sc.(Agr.)1.	Macdonald College, Que.	Ste A. 407, 810
		Gatineau, Que.	
GILPIN, Victor.	Grad.Sch.	1441 Drummond Street, Montreal.	MA 4171
		75 Orchard St., London, Ont.	
GINGRAS, Marcel.	B.Eng.3.	313 Principal St., Ville St.Laurent.	BY 2078

NAME FACULTY AND YEAR ADDRESS TEL. NO.

Where two addresses are given, the second is the home address.

GIOVANNETTI, Gerald A..Dent.4.....3617 Lorne Crescent, Montreal.
86 Dorchester St., Sydney, N.S.
GIOVETTI, Elizabeth M..B.A.3.....357 Oak Ave., St. Lambert,Que.....St.L. 2754
GIRARD, Maurice.....Arch.1.....2027 Stanley St., Montreal.....LA 1503
104 Perrault St., Rouyn, Que.
GIRI, Michael.....B.A.1.....762 Sherbrooke St.W., Montreal.....MA 0298
10 Granville Road, Eastbourne, England.
GLASGOW, Douglas S.M...Med.4.....495 Prince Arthur St.W.,Apt.2,Montreal.MA 3983
1857 Sterling Road, Charlotte, N.C.
GLASSMAN, Alex.....B.Eng.1.....3609 University St., Montreal.....LA 6307
1584 Badeaux St., Three Rivers, Que.
GLEGG, Keith C. M.....B.Sc.1.....3541 Jeanne Mance St., Montreal.....MA 8708
2 Lissant Rd., Kingston, Jamaica, B.W.I.
GLEGG, Ronald E.....B.Sc.3.....3541 Jeanne Mance St., Montreal.....MA 8708
2 Lissant Rd., Kingston, Jamaica, B.W.I.
GLEN, John D.....B.Sc.2.....549 Lansdowne Ave., Westmount.....WI 6310
GLEN, Stuart C.....B.Sc.2.....1441 Drummond St., Montreal.....MA 4171
Ste. Agathe des Monts, Que.
GLICKMAN, Irwin B.....B.Sc.3.....955 Hartland Ave., Outremont.....AT 4317
GOAD, David W.....B.Sc.3.....63 Ballantyne Ave.N., Montreal West....DE 7314
2515 Marcy Ave., Evanston, Ill.
GOBEIL, Charles M.....B.Sc.2.....1290 Bernard Ave.,Apt.12, Outremont.
Ste. Agathe des Monts, Que.
GODBOUT, Maurice D.....B.C.L.2.....4685 St.Catherine Rd., Montreal.....AT 2865
GODDARD, Lawrence L....B.Eng.3.....5319 Snowdon Ave., N.D.G.....EL 5067
GODINE, Maurice D.....Dent.2.....2203 Souvenir Ave., Montreal.....WI 0288
GODZISZEWSKI,Antoni B..B.A.2.....2667 Rachel St.E., Montreal.
GODZISZEWSKI, Jozef B..B.A.2.....2667 Rachel St.E., Montreal.
GOEDICKE, Thomas R.....B.Sc.4.....2151 Lincoln Ave., Montreal.....FI 6483
GOFF, John L.....Med.3.....3460 Durocher St., Montreal.....HA 0476
Valier, Montana.
GOLD, Manuel T.....B.Eng.4.....67 Maplewood Ave., Outremont.....CA 3637
GOLD, Morton.....Med.3.....67 Maplewood Ave., Outremont.....CA 3637
GOLD, Phyllis.....Teachers'(Int.)643 Bloomfield Ave.,Outremont.....DO 8867
GOLDBERG, Alfred.....B.Eng.1.....Apt.3,3586 Durocher St.,Montreal.....MA 9765
GOLDBERG, Frances.....B.Com.2.....1717 Ducharme Ave., Montreal.....AT 3030
GOLDBERG, Martin J.....B.Eng.3.....1717 Ducharme Ave., Montreal.....AT 3030
GOLDBERG, Simon.....Music P.....4870 Jeanne Mance St., Montreal.....CA 5313
GOLDBLOOM, Richard B...B.Sc.2.....1543 Crescent Street, Montreal.....MA 2696
GOLDBLOOM, Victor C....Med.1.....1543 Crescent Street, Montreal.....MA 2696
GOLDEN, Clifford.....B.Sc.1.....50 Beloeil Avenue, Outremont.....CA 7214
GOLDFARB, Harold P.....B.Sc.4.....5136 Esplanade Ave.,Montreal.....CR 0270
GOLDFIELD, Esther.....B.Sc.2.....5602 Hutchison St., Outremont.....CR 0570
300 Crichton St., Ottawa, Ont.
GOLDING, Thomas A.....Med.4.....3426 McTavish St., Montreal.....LA 9894
1603 Maple Ave.,Pullman,Washington State.
GOLDSTEIN, Maurice S...B.Sc.3.....4669 Hutchison St., Montreal.....DO 5801
GOLUB, Morton.....B.Sc.2.....361 Fairmount Ave.W., Montreal.....CA 9378
GONZALEZ, Frank O.....B.Sc.(Agr.)3...Macdonald College, Que.....Ste A. 407,
Scarborough, Tabago, B.W.I. 810
GOODE, John D.....B.Eng.1.....178 Cote St.Antoine Rd., Montreal.....WE 3930
GOODFELLOW,J.Bruce G...B.Eng.1.....134 Cornwall Ave.,Town of Mt.Royal.....AT 2239
GOODFRIEND, Lawrence...B.Sc.2.....6 Rachel St.W.Apt.3, Montreal.....BE 2252
GOODMAN, William.....Med.3.....5424 Jeanne Mance St., Montreal.....CR 7052
GOODRICH, E. Raymond...Med.1.....3592 University St., Montreal.....PL 2435
505 Linden Place, Cranford, N.J.
GOODWIN, Alan M.....B.Sc.(Agr.)2...Macdonald College, Que.....Ste A. 407,
11 Perreault Ave.,Ste.Anne de Bellevue. 810
GORDON, Abraham I.....B.Eng.4.....736 McEachran Ave., Outremont.....CA 8153
GORDON, Arthur A.....Med.4.....Shriner's Hospital,1529 Cedar Ave.,
Montreal.....PL 4464
Revelstoke, B.C.
GORDON, Elizabeth M....B.A.4.....4250 Sherbrooke St., Montreal.....WI 2989
GORDON, Katharine H....Med.2.....4643 Sherbrooke St.W.,Westmount.....WE 4903
GORMAN, Thomas W.....Med.2.....3533 Park Avenue, Montreal.....LA 7547
34 Cornishtown Rd., Sydney, N.S.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

GOSSELIN, Marcel	Arts P.	51 McCulloch Ave., Montreal	CA 3354
GOSSET, Max E.	B.Eng.3.	7430 Durocher St., Montreal.	
GOTTLIEB, Elaine E.	B.A.1.	2229 Maplewood Ave., Outremont.	AT 3613
GOULD, George C.	B.A.4.	4113 Sherbrooke St.West, Montreal.	FI 3133
GOULD, Helen F.	Grad.Sch.	4113 Sherbrooke St.West, Montreal.	FI 3133
GOULD, Keith P.	B.Eng.1.	2457 Westhill Ave., Montreal.	DE 6405
GRAD, Dorothy.	Grad.Nurses.	772 Sherbrooke St.West, Montreal.	HA 6268
		116 Victoria Ave., Regina, Sask.	
GRAHAM, Mildred.	B.A.3.	4563 Coolbrooke Ave., Montreal.	DE 9409
		Ormstown, Que.	
GRAINGER, Frank A.	Med.4.	3483 Peel St., Montreal.	LA 0643
		226 Highfield St., Moncton, N.B.	
GRAND-LANDAU, Pierre.	B.Sc.1.	1800 McGregor St., Montreal.	WI 4920
GRANGER, Marian F.	B.A.3.	4818 Westmore Ave.,Montreal.	FI 3130
GRAINGER, Phyllis J.	Teachers'(Elem).	772 Sherbrooke St.W.,Montreal.	HA 6268
		Cookshire, Que.	
GRANT, Ernest.	B.Sc.(Agr.)4.	Macdonald College, Que.	Ste. A. 407,
		225 Dominion St., Glace Bay, N.S.	810
GRANT, Peter S.	B.Eng.1.	1214 Seymour Ave., Montreal.	
		New Liskeard, Ont.	
GRANT, Robert Y.	B.Sc.(Agr.)3.	343 Clarke Ave., Westmount.	Ste A.407,810
GRANT, Vincent.	Dentistry 1.	3602 Durocher St., Montreal.	MA 4939
		Montague, P.E.I.	
GRAVEL, Jean J. O.	B.Sc.1.	3570 McTavish St., Montreal.	HA 8611
GRAVES, Arthur H.	B.Eng.1.	3480 Durocher St., Montreal.	PL 0787
		167 Hopewell Ave., Ottawa.	
GRAVES, Robert H.	Dent.3.	3647 University St., Montreal.	MA 2806
		2450 South Catherine St., Plattsburg,N.Y.	
GRAW, Barbara J.P.	B.A.1.	5872 Somerled Ave., Montreal.	EL 1032
GRAY, Raphael W.	B.Sc.3.	Presbyterian College, McTavish St.,	
		Montreal.	PL 1649
		4 Elgin Rd.,Cross Rds.,P.O.Jamaica,B.W.I.	
GRAY, Willard St.R.	B.Sc.2.	557 Berwick, Town of Mt.Royal.	AT 4204
GREARSON, Franklin D.	B.Com.1.	5701 Cote St.Antoine Rd.,Montreal.	EL 9602
GREEN, Fredericka R.	B.A.1.	1546 Crescent St., Montreal.	PL 1700
GREEN, Henry G.	Med.1.	517 Pine Ave. West, Montreal.	MA 2948
		Arthur, Ont.	
GREEN, Stuart.	B.Eng.1.	35 Dufferin Rd., Hampstead.	WA 2067
GREEN, William R.	B.Arch.3.	3485 McTavish St., Montreal.	PL 1649
		c/o 60½ King St.W., Hamilton, Ont.	
GREENAWAY, Florence I.	Grad.Nurses.	Strathcona Hall, Montreal.	HA 6268
		62 Kirkland St., Guelph, Ont.	
GREENBERG, Jack.	B.Sc.4.	105 Mt. Royal W., Montreal.	LA 5010
GREENIDGE, Arthur H.	Med.3.	4929 Bessborough Ave., Montreal.	EL 4350
GREENING, Ernest R.	B.Sc.1.	506 Pine Ave. West, Montreal.	LA 5973
GREENWALD, Israel.	B.Eng.2.	3009 Maplewood Ave.Apt.9, Montreal.	
GREENWOOD, Rosalind P.	Arts P.	3831 Marlowe Ave., Montreal.	DE 8066
GREER, Cicely M.	B.A.4.	778 Champagneur Ave., Outremont.	DO 1941
GREGOIRE, Lucien.	B.Sc.3.	2003 Des Carrieres.	DO 6890
GREGOIRE, Raymond.	B.Sc.1.	664 Wiseman, Montreal.	CR 5757
GREGOIRE, Rolland A.	Theol. 2.	6356 Louis Hemon St., Montreal.	DO 3772
GREGORY, D. A.	Theol. 1.	4464 Delorimier Ave., Montreal.	AM 6529
GREGORY, Peter G.	B.Eng.4.	4081 Highland Avenue, Montreal.	
GRIEVE, Dorothy C.	B.H.S. 1.	Macdonald College, Que.	Ste A. 806,
		Box 55, Pembroke, Ont.	830
GRIFFIN, George J.	B.Sc.1.	111 Cornwall Ave., Montreal.	AT 4284
GRIFFITH, A. Leonard.	Theol. 1.	35 Windsor Ave., Westmount.	EL 7643
		75 Park St., Brockville, Ont.	
GRIFFITH, Linda M.	B.A.2.	3445 Northcliffe Ave., Montreal.	DE 8382
GRIMALDI, Anthony G.	B.Com.3.	4820 Western Ave., Montreal.	WI 4938
GRIMAUD, Albert A.	B.A.2.	5084 Papineau Avenue, Montreal.	AM 7240
GRIMES, Kittie D.	B.H.S.4.	Macdonald College, Que.	Ste A. 806,
		121 Wickstead Ave.,Town of Mt.Royal.	830
GROOME, George R.	B.Eng.3.	5866 Jeanne Mance St., Montreal.	CR 6748
GROSS, Evelyn E.	Arts P.	10 Merton Crescent, Hampstead.	DE 8553
GROSS, Jack.	Med.2.	2 Northcote Rd., Montreal.	DE 9553
GROSS, Shirley A.	B.A.1.	124 Aberdeen Ave., Westmount.	
GROVER, Ada G.	B.A.2 Music P.	4421 Esplande Ave., Montreal.	MA 5154

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

GRUMAN, Jack S.	Dent P.	1051 St. Viateur W., Outremont	CL 4395
GRUMMITT, William E.	Grad. Sch.	2063 Stanley St., Montreal	MA 9038
		Hanna, Alberta.	
GRUNDY, Agnes.	B.Sc.1.	2331 Grand Blvd., N. D. G.	EL 1795
GUBBINS, Alberto.	B.Sc.1.	3460 Durocher St., Montreal	HA 0476
		341 Rifa St., Lima, Peru. S.A.	
GUBBINS, Carlos.	B.Com.4.	3460 Durocher St., Montreal	HA 0476
		341 Rifa St., Lima, Peru. S.A.	
GUEST, Rex McL.	Grad.Sch.	2063 Stanley St., Montreal	MA 9038
		737 William St., London, Ont.	
GUNN, Dacie.	Med.1.	4055 Grand Blvd., N. D. G.	
		R.M.D. Cobble Hill, B.C.	
GUNN, Jessie R.	B.A.3.	6074 Notre Dame de Grace Ave.,N.D.G.	DE 3398
GURD, Frank R.N.	B.Sc.2.	3180 Westmount Blvd.	FI 3855
GURD, Robert S.	B.Sc.2.	615 Clarke Ave., Westmount.	WE 2068
GURDIAN, Raul.	B.Com.3.	Douglas Hall, Montreal	BE 2885
		Apt., 629,San José, Costa Rica.	
GURDIAN, Rodolfo.	B.Eng.2.	Douglas Hall, Montreal	BE 2885
		Apt. 629, San José, Costa Rica.	
GURSKY, Diana.	Teachers'(Elem.)	5429 Waverley St., Montreal	DO 6586
GUTER, Ernest.	B.A.2.	1821 St.Catherine St.West, Montreal	FI 1021
GUTHRIE, David G.	Med.2.	812 St. Roch St., Montreal	CA 5223
HADDAD, Emile J.	B.A.3.	2057 St. Denis St., Montreal	LA 8059
		119 Notre Dame St. Lachine.	
HADDAD, Victor A.	B.Eng.1.	1139 St.Joseph Blvd.E.Apt.1,Montreal	CR 0783
		Rawdon, Que.	
HADDELAND, George E.	B.Eng.4.	3426 McTavish St., Montreal	LA 9894
		Starbuck, Man.	
HADLEY, Gordon E.	B.Sc.1.	16 Lake Breeze Ave., Valois, P.Q.	P.Cl. 542
HADLEY, Henry M.	B.Sc.1.	261 Moffat Ave., Montreal	YO 0068
HAIBLEN, Alfred H.D.	B.Eng.1.	1836 Sherbrooke St.W., Montreal	WE 4735
		c/o E.P. Grobb, Dominion Chain Co.Ltd.,	
		Niagara Falls, Ont.	
HALE, Burt B.	B.Sc.1.	306 Brock Ave.N., Montreal West	EL 2172
HALE, Edward C.	B.Eng.2.	3472 Montclair Ave., N.D.G.	DE 9452
HALE, Jacqueline MacA.	B.Sc.3.	3193 Westmount Blvd.	FI 6548
HALE, Jeffrey A.	B.Eng.1.	3472 Montclair Ave., N. D. G.	DE 9452
HALE, Tom R.	B.Sc.3.	112 Second St., St. Lambert	St.L.2719
HALFHIDE, Ewatt Wm.	B.Arch.1.	3585 St. Famille St., Montreal.	
		56 Park St., Port of Spain, Trinidad.	
HALFHIDE, Rudolph.	Med.2.	1385 Bernard, Apt.20, Montreal	CA 2689
HALFORD, Charles N.	B.A.2.	68 Chesterfield Ave., Montreal	EL 6479
HALL, Charles E.	Grad.Sch.	4601 Rosedale Ave., Montreal	DE 9071
HALL, Edward.	B.Sc.3.	3525 University St., Montreal.	
		Windsor Mills, Que.	
HALL, H. Margaret.	B.A.2.	595 Roslyn Ave., Montreal	WA 3684
HALL, John A.	Med.1.	3581 University St., Montreal	MA 3842
		3 Ridgewood Rd., Toronto, Ont.	
HALL, Louise G.	Teachers'(Elem.)	Strathcona Hall, Montreal	HA 6268
		20 Hospital St., Farnham, Que.	
HALL, Peter R. C.	B.Eng.4.	2019 Stanley St.,Apt.1,Montreal	LA 6063
		Roughway,Coombe Hill,Kingston, Eng.	
HALLEY, Elphege L.	B.Sc.Agr.2.	Macdonald College, Que.	Ste A. 407,
		574 Ste Angele St., Three Rivers,P.Q.	810
HALPERN, Philip E.	B.Sc.Agr.3.	Macdonald College, Que.	Ste A. 407,
		5401 Hutchison St., Montreal.	810
HAMBROCK, Mary K.	B.Sc.1.	727 Hartland Ave., Outremont	AT 4653
HAMBROCK, Louis R.	B.Sc.3.	727 Hartland Ave., Outremont	AT 4653
HAMILL, Robert McA.	Med.1.	538 Prince Arthur St., Montreal.	
		121 Hillside Ave., Holyoke, Mass.	
HAMILTON, Janet I.	B.A.3.	4015 Trafalgar Road, Montreal	WE 4164
HAMLET, Geraldine H.	B.Sc.4.	34 Burton Ave., Westmount	DE 5030
HAMMERSCHMID, Leo J.	B.Eng.1.	3505 St. Famille St., Montreal	PL 4596
HAMOVITCH, William.	B.Com.4.	861 Rockland Ave., Outremont, Que.	CA 5255
HANEY, Joyce.	B.A. 1.	Royal Victoria College, Montreal	MA 9176
		North Maple Ave., Greenwich, Conn.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

HANNAYS, Gabrielle	B.Sc.Agr.1	Macdonald College, Que.	Ste A. 806, 830
		Port of Spain, Trinidad, B.W.I.	
HANNAYS, George J. C.	B.Sc.1	16 Hayes St. Port of Spain, Trinidad, B.W.I.	
HANRAHAN, Marion P.	B.Sc.4	5663 Cote St. Antoine Rd., Montreal	EL 2180
HANSON, Edwin A. G.	B.Sc.1	1227 Sherbrooke St. W., Montreal	LA 4521
HANSON, H. Patricia	B.A.4	1227 Sherbrooke St. W., Montreal	LA 4521
HANSON, Joseph H.	Med.1	1441 Drummond St., Montreal	MA 4171
		386 Penobscot Ave., Millinocket, Maine.	
HARDER, Jean P.	B.Sc.4	584 Cote St. Antoine Rd., Montreal	WA 4812
HARDIE, George K.	B.Com.1	2209 Oxford Ave., N. D. G.	
		Box 254, Brownsburg, Que.	
HARDIE, Robert H.	B.Sc.2	23B- 17th Ave., Lachine	Lach. 2241-W
HARDING, Ross W.	B.Com.1	1441 Drummond St., Montreal	MA 4171
		67 Ahrens St. W., Kitchener, Ont.	
HARDING, Stanley R. L.	Grad. Sch.	Redpath Museum, McGill University	MA 9181
		Assiniboia, Sask.	
HARDMAN, Jack G.	Med.3	Douglas Hall, Montreal	BE 2885
		Revelstoke, B.C.	
HARDWICK, Thomas J.	Grad.Sch.	140 Broughton Ave., Montreal West	DE 5236
HARDY, Dorothy R.	B.Sc.Agr.1	Macdonald College, Que.	Ste A. 806, 830
		Ste Anne de Bellevue, Que.	
HARING, Norman F.	B.Sc.1	6187 Terrebonne Ave., N. D. G.	DE 1788
HARKNESS, Peter D.	B.Sc.1	3541 Decarie Blvd., Montreal	EL 0705
		Cumberland, Ont.	
HARKNESS, Robert H.	B.Sc.1	4386 Montrose Ave., Westmount	WE 5486
HARLEY, Dorothy M.	B.A.1	5181 Cote St. Antoine Rd., Montreal	WA 1802
HARLING, M. A.	Grad. Nurses	1491 Crescent St., Montreal	PL 1978
HARLOW, Margaret C.	Lib. Sch.	Royal Victoria College, Montreal	MA 9176
		159 Willow St., Truro, N.S.	
HARRINGTON, Eileen M.	B.A. 1	Royal Victoria College, Montreal	MA 9176
		1923-23rd Drive Astoria, L.I., N.Y.	
HARRIS, Charles C.	Grad. Sch.	1710 Dorchester St. West, Montreal.	
		Glens Falls, N.Y.	
HARRIS, George B. C.	B.Eng.1	224 College St., St. Laurent	BY 1607
HARRIS, John R.	B.Eng.1	3581 Durocher St., Montreal	HA 7778
		Bloomfield Hotel, Mandeville, Jamaica, B.W.I.	
HARRIS, Ruth O.	B.A.4	148 Brock Ave., Montreal West	DE 1553
HARRISON, Joan	Music P.	"Greycot" Lakeshore Rd., Ste. Anne de Bellevue	Ste A. 453
HARTLEY, Kenneth D.	B.Sc.2	8011 Champagneur Ave., Montreal	CA 2264
HARTSON, Robert C.	Med.3	3460 Durocher St., Montreal	HA 0476
		860 Ackerman Ave., Syracuse, N. Y.	
HARVIE, M. Joy	B.H.S.3	Macdonald College, Que.	Ste A. 806, 830
		303-36th St. W., Calgary, Alta.	
HASHIM, Robert	B.Eng.2	3429 Belmore Ave., Montreal	DE 8271
HASKELL, Lewis D.	B.A.1	777 Upper Lansdowne Ave., Montreal	EL 1707
HATCH, Gerald G.	B.Eng.4	6184 N. D. G. Ave., Montreal	EL 2110
HATCH, Richard L.	Med.2	548 Prince Arthur St., Montreal	MA 7845
		Russell, N.Y.	
HATCHER, Gordon H. M.	Med.2	172-44th Ave., Lachine, Que.	Zone 8006
HATSCH, Roger E.	B.Eng.3	3482 Durocher St., Montreal	PL 0787
		401 Highland St., Moncton, N.B.	
HAWKER, Gordon A.	B.Sc.2	437 Victoria Ave., Montreal	DE 5753
HAWKES, Arthur S.	Grad.Sch.	2063 Stanley St., Montreal	MA 9038
		302 Moss St., Victoria, B.C.	
HAY, Jean L.	B.Sc.2	3430 Ontario Ave., Montreal	HA 0750
HAY, John	Med.1	Douglas Hall, Montreal	BE 2885
		c/o Dr. H.C. Church, 14 Powell Avenue, Ottawa, Ont.	
HAYES, Jack S.	B.Com.4	41 Glencoe Ave., Outremont	AT 0296
HAYES, Murray W.	B.Com.1	4447 Old Orchard Ave., Montreal	EL 2167
HAYMAN, Louis DeM.	Med.3	3617 Lorne Crescent, Montreal	LA 8013
		Atlantic, N.C.	
HAZLE, John R.	B.Eng.2	3671 St. Urbain St., Montreal.	
HAZLETT, Gwendolyn C.	B.A.3	3502 Addington Ave., Montreal	DE 3887
HEAGERTY, John S.	B.Sc.1	3615 Durocher St., Montreal.	
		238 Powell Ave., Ottawa, Ont.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

HEATH, Hugh B.	B.Sc.1	Douglas Hall, Montreal	BE 2885
		8 Tormey St., Ottawa, Ont.	
HEATH, Hunter	Med.3	3617 Lorne Crescent, Montreal	LA 8013
		Kinston, N.C.	
HEBERT, Lois A.	B.A.2	2260 Dorchester St.W., Montreal.	
HEBERT, Rene V.	Med.1	517 Pine Ave. W., Montreal	MA 2948
		57 Franklin St., Holyoke, Mass.	
HEDLIN, William A.	Grad.Sch.	Macdonald College, Que.	Ste A. 739
		Renown, Sask.	
HEIGHTON, Vernon A.	B.Sc.Agr.3	Macdonald College, Que.	Ste A. 407, 810
		Box 468, Pictou, N.S.	
HEINRICH, Heinz J.	B.Eng.3	38 Rosemount Ave., Westmount	FI 7307
HELLER, Irving H.	B.C.1	1327 Lajoie Ave., Outremont	CA 4032
HELLER, Leon	B.Sc.2	1327 Lajoie Ave., Outremont	CA 4032
HELLER, Nathan	B.Sc.4	32 Joyce Ave., Outremont	CA 4768
HELLER, Peter	B.A.3	3740 Jeanne Mance, Montreal	MA 3063
HELLSTROM, Klas E. G.	B.Eng.2	5 Murray Ave., Westmount	WE 3259
HELYNCK, Dan E.	B.Sc.1	5840-7th Ave.,Rosemount, Montreal	AM 7523
HENDERSHOTT, Charles W.	B.Sc.1	127 Ballantyne Ave., Montreal West	EL 2429
HENDERSHOTT, Frederick.	B.Eng.3	127 Ballantyne Ave., Montreal West	EL 2429
HENDERSON, Harold L.	Grad.Sch.	3485 McTavish St., Montreal	PL 1649
	Theol. 3	Freeland, P.E.I.	
HENDERSON, N. L.	B.Sc. 1	124 Hickson Ave., St. Lambert	St.L.2952
HENDRIE, Hugh S.	B.Eng.1	Douglas Hall, Montreal	BE 2885
		Burlington, Ont.	
HENDRIE, John S.	B.Com.4	Douglas Hall, Montreal	BE 2885
		Burlington, Ont.	
HENERY-LOGAN, K. R.	Grad.Sch.	3716 Jeanne Mance St., Montreal	HA 8020
HENEY, Mary K.	B.H.S. 1	Macdonald College, Que.	Ste A. 806, 830
		220 Pembroke St., Pembroke, Ont.	
HENINGER, Maurice K.	Med.2	3578 Clark St., Montreal.	
		Raymond, Alta.	
HENNEMAN, Elwood.	Med.3	3615 Durocher St., Montreal	PL 6905
		263 Corona Ave., Pelham, N.Y.	
HENNING, Fred K.	B.Eng.4	3465 Cote des Neiges Rd., Montreal	FI 2983
HENRIQUES, Dorothea E.	B.A.1	Royal Victoria College, Montreal	MA 9176
		Hendon, Mandeville, Jamaica, B. W. I.	
HENRY, Edith E.	B.A.2	750 Lexington Ave., Westmount	DE 9936
		213 Carling Ave., Ottawa, Ont.	
HENRY, G.E. Marion	B.A.2	3435 Montclair Ave., Montreal	DE 7120
HENRY, James P.	Grad.Sch.	Royal Victoria Hospital	PL 1251
		Apt.26, 1710 Dorchester St.W., Montreal.	
HERON, Alexander DeF.	B.Eng.3	433 Laird Blvd.,Town of Mt.Royal	AT 6925
HERON, Malcolm J.	Med.4	1000 Sherbrooke St.W., Montreal	BE 0657
		Cross Keys, Jamaica, B.W.I.	
HÉROUX, Paul R.	B.Com.3	4596 Jeanne Mance, Montreal	HA 0903
HERSCOVITCH, Oscar	Med.4	835 Stuart Ave., Outremont	CR 6581
HERSEY, E. Peter	B.Sc.1	509 Pine Ave. West., Montreal	MA 2580
HERSHMAN, Hyman P.	B.Eng.2	375 Villeneuve W., Montreal	CA 6068
HERTZ, Ralph E. L.	Med.2	3801 University St., Montreal	PL 1251
		Ormstown, Que.	Loc.281
HESLAM, Joyce M.	B.H.S.2	Macdonald College, Que.	Ste A. 806,
		4041 Beaconsfield Ave., Montreal, Que.	830
HEUSER, Eric R.	B.Eng.2	4056 Melrose Ave., N. D. G.	DE 0322
HICKLIN, Herbert F.	B.Sc.Agr.3	Macdonald College, Que.	Ste A. 407,
		356 Daly Ave., Ottawa, Ont.	810
HICKS, Albert R.	Med.3	Room 1203, 1441 Drummond St.,Montreal	MA 4171
		Cumberland, B.C.	
HIGGINS, Agnes C.	Arts P.	469 Argyle Ave., Westmount.	
HIGGINS, Lester H.	B.A.1	Apt.9,495 Prince Arthur St.,Montreal	PL 3537
		93 Queen St., Moncton, N.B.	
HILL, Ross O.	B.Sc.2	4395 Old Orchard Ave., Montreal	EL 1959
HILL, Ruth L.	B.C.L.1 Arts P.	Royal Victoria College,Montreal	MA 9176
		304 Union Blvd., St. Lambert, P.Q.	
HILL, Wallace C.	Med.3	477 Prince Arthur St. West, Montreal	LA 3691
		Erie, North Dakota, U.S.A.	
HILLMAN, Donald A.	B.Sc.1	157 Ballantyne Ave.N.,Montreal West	EL 2733
HILLMAN, Gladys M.	Grad.Sch.	Macdonald College, Que.	Ste A. 581
		Seven Sisters Falls, Man.	
HILLYER, H. Norman	Theol.3	4692 Christophe Colombe St.,Montreal	FR 6863

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

HINDS, Henry E. G.	Med.3	72 York Ave., Westmount	DE 2915
HINGKING, Clotilde D.	B.Sc.1	Royal Victoria College, Montreal	MA 9176
		St.Augustine, Trinidad, B.W.I.	
HIRST, Margaret B.	B.A.3	565 Bennet Ave., Montreal	CL 5193
HIRST, Thomas C.	B.Eng.3	2253 Harvard Ave., N. D. G.	DE 1077
HLIBCHUK, Walter	B.Eng.2	3 Popliger Ave., Montreal.	
HOBBS, H.L. Norma	B.A.4	340 Lansdowne Ave., Westmount	EL 8934
HOBSON, William	B.Eng.4	3601 Dezery St., Montreal	FR 0326
HODGSON, Margaret C.M.	Grad.Nurses	4814 Dornal St.,Cote des Neiges	EX 1384
		Alberni, B.C.	
HOECHSTER, Martin R.	B.Sc.2	3547 University St., Montreal	LA 0789
HOGG, John D.	B.Sc.4	4114 Western Avenue, Montreal	WI 0614
HOFFMAN, Martin M.	Grad.Sch	3637 Oxenden Avenue, Montreal	MA 8729
		70 Summer St., St. John, N.B.	
HOLDEN, Charles P.	Med.3	Douglas Hall, Montreal	BE 2885
		176 St. John St., Fredericton, N.B.	
HOLDEN, Lorne W.	B.Eng.3	7356 Sherbrooke St., Montreal	EL 7224
HOLDER, Margaret S.	B.Sc.3	78 Strathyre Ave., Ville Lasalle	Lach.611-J
HOLDER, Steuart P.	B.Eng.3	78 Strathyre Ave., Ville Lasalle	Lach.611-J
HOLDREDGE, Bertram L.	Med.4	495 Prince Arthur W.Apt.2, Montreal	MA 3983
		Narragansett, Rhode Island, U.S.A.	
HOLLAND, George H.	B.Sc.1	111 Ballantyne Ave., Montreal West	DE 0916
HOLLOWAY, Sydney H.	Med.2	1320 Green Avenue, Westmount	WI 8800
		9050 Gouin Blvd.W., Ste.Genevieve, P.Q.	
HOLMES, James M.	Grad.Sch	2063 Stanley St., Montreal	MA 9038
		Doaktown, N.B.	
HOLMES, Stuart W.	Med.3	2047 Stanley St., Apt.34, Montreal	LA 6496
		Tonaskit, Washington.	
HOME, Shirley	B.A.2	Royal Victoria College, Montreal	MA 9176
		Canal Flat, B.C.	
HOMER, Kenneth C.	Grad.Sch	1898 Dorchester W.Apt.4, Montreal	WE 2592
HOOD, Janet M.	B.A.1	313 Westminster Ave.,Montreal West	DE 7430
HOOKER, Marjorie M.	Teachers'(Elem.)	Strathcona Hall, Montreal	Ha 6268
		Box 155, Ormstown, Que.	
HOOPER, Verna L.	B.H.S.2	Macdonald College, Que.	Ste A.806,
		143 Euston St.,Charlottetown, P.E.I.	830
HOOPER, William T.	Med.1	Douglas Hall, Montreal	BE 2885
		143 Euston St.,Charlottetown, P.E.I.	
HOPTON, Dorothy A.	B.A.2	Royal Victoria College, Montreal	MA 9176
		59 Margaret Ave., Kitchener, Ont.	
HORLICK, Louis	Med.1	3839 Arcade St., Montreal	HA 1540
HORNER, Edward B.	Med.2	3647 University St., Montreal	MA 2806
		Charteris, Que.	
HOSPADARUK, Vladimir	B.Sc.1	405-10th Ave., Lachine.	
HOUGH, Dorothy K.	Arts P	36 Cornwall Ave., Town of Mt.Royal	AT 3052
HOW, M. Anne	B.A.3	3593 Marlowe Ave., Montreal	DE 8334
HOWARD, Kenneth S.	B.A.2	28 Summit Crescent, Westmount	EL 3112
HOWE, Elizabeth	B.Sc.2	Royal Victoria College, Montreal	MA 9176
		7 Crescent Rd., Ottawa, Ont.	
HOWE, Hervey L.	B.Sc.1	4298 Dorchester St.W., Montreal	FI 6710
		1695 St.Louis Blvd.,Three Rivers.	
HOWE, Lloyd G.	B.Eng.4	3580 Durocher St., Montreal	PL 7519
		Calgary, Alta.	
HOWELL, Mary E.	Teachers'(Elem.)	461 Grosvenor Ave., Westmount	EL 8259
HOWIE, Jean E.	B.Sc.3	3660 Lorne Crescent,Apt.16,Montreal	HA 0425
		Pike River, Que.	
HOWIE, Ross Ellison	B.Eng.3	3660 Lorne Crescent, Apt.16, Montreal.	HA 0425
		Pike River, Que.	
HOYTE, Ralph A.St.C.	Med.1	3489 Durocher St., Montreal	MA 4310
		3 Picton St. Port of Spain, Trinidad,B.W.I.	
HRISKEVICH, William	B.Sc.1	2027 Stanley St., Montreal	LA 1503
		114-Sixth St.,Noranda,Que., Box 143.	
HUBBELL, Ruth	Phy.Ed.1	2083 Marlowe Ave., Montreal	DE 1536
HUBSCHER, Shirley M.	Teachers'(Int.)	1360 Bernard Ave., Outremont	CA 5405
HUDSON, Margaret Edith	B.A.3	4378 Oxford Ave., Montreal	EL 1427
HUESTON, William McE.	B.A.1	3581 University St., Montreal	MA 3842
		375 N. Christina St., Sarnia, Ont.	
HUGHES, Anne	B.A.1	Royal Victoria College, Montreal	MA 9176
		329 East 197th St., N.Y.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

HUGHES, Menna	B.A.3	3500 Durocher, Apt.2, Montreal	MA 6994
HUME, Robert D.	B.Sc.1	2055 Lincoln Ave., Apt.10, Montreal	WI 9996
HUMPHREY, John P.	Grad.Sch	427 Elm Avenue, Westmount	FI 5853
HUMPHREYS, Robert S.	B.Com.3	4967 Grosvenor Ave., Montreal	AT 2766
HUMPHRIES, Mary P.	Teachers'(Elem.)	Strathcona Hall, Montreal	HA 6268
		35 Fourth Ave., Grand'Mere, Que.	
HUNT, Stuart B.	Arts P.	5178 Cote St.Antoine Rd., Montreal	DE 0783
HUNTER, Gerald F.H.	Grad.Sch	1192 Graham Blvd.,Town of Mt.Royal	EX 1223
		Huntingdon, Que.	
HUNTER, Margaret F.	B.A.3	1509 Sherbrooke St.W.Apt.37,Montreal	FI 9018
HUNTER, Trenna G.	Grad.Nurses	772 Sherbrooke St.,Montreal	HA 6268
		4238 W. 11th St., Vancouver, B.C.	
HURREN, Doris R.	B.H.S.2	Macdonald College, Que	Ste A. 806
		Powell River, B.C.	830
HURST, Nancy E.	Grad. Nurses	430 Prince Arthur St.W.,Apt.3,Mtl	LA 3885
		Parry Sound, Ont.	
HURTER, Alfred M.	B.Eng.1	83 Hudson, Town of Mt. Royal	EX 2936
HUTCHINS, George Ross.	B.Sc.4	1285 Redpath Crescent, Montreal	HA 5093
HUTCHINS, Roger W.	B.Sc.1	1285 Redpath Crescent, Montreal	HA 5093
HUTCHINSON,Thos.Peter.	B.Eng.3	313 Oak Ave., St. Lambert, P.Q.	St.L. 7673
HUTT, Phyllis	B.H.S.3	Macdonald College, Que	Ste A. 830
		Berwick, Ont.	806
HYAMS, Doreen	B.Sc.3	2767 Maplewood Ave., Montreal	EX 2084
		London, England.	
HYDE, Alexander G.	B.Sc.1	736 Upper Belmont Ave., Westmount	EL 9234
HYDE, Edward J.	Dent.1	4384 Sherbrooke St.W., Westmount	WI 6656
HYDE, Reed W.	Med.2	Douglas Hall, Montreal	BE 2885
		84 Mountain Ave., Summit, N.J.	
HYLAND, E. Joyce	B.Sc.3	3807 Kent Ave.,Cote des Neiges,Montreal	AT 2519
		101 Carling Ave., Ottawa, Ont.	
HYLANDS, Hugh D.	B.Sc.1	4694 Earnscliffe Ave., Montreal	EL 7816
HYLTON, Bancroft St.J.	B.Sc.2	1441 Drummond St., Montreal	MA 4171
		9 Easton Ave.,St.Andrew,Jamaica,B.W.I.	
HYNDMAN, James E.	B.Eng.1	4070 Hingston Ave., Montreal	DE 9187
HYNDMAN, Patrick R.	B.Com.4	4070 Hingston Ave., N.D.G.	DE 9187
IBBERSON, Robert	Music	55-17th Ave., Lachine.	
IDIONG, Asuquo U.	Med.3	2024 Mansfield St., Montreal.	
		Edienne No. 1 Abak, Nigeria.	
INCE, Geoffrey W.	B.Sc.1	Douglas Hall, Montreal	BE 2885
		Melrose,Collymore Rock, St.Michael,B.W.I.	
INGALLS, Arline T.	Teachers'(Elem.)	772 Sherbrooke St.W.,Montreal	EL 7854
		R.R. 2 Sutton, Que.	
INGLIS, Elizabeth MacL.	B.A.1	7499 Querbes Ave., Montreal	DO 4020
		195 Maple Ave., Quebec.	
INNISS, Kenneth A. L.	B.A.3	3525 University St., Montreal	MA 4352
		17 Rust St.,Port of Spain,Trinidad,B.W.I.	
INNISS, Margaret	Music	3585 Ste Famille St., Montreal	MA 5514
		89 Pembroke St.,Port of Spain,Trinidad,B.W.I.	
INNISS, Rita	Music	4544 St Catherine St.West, Montreal	FI 2052
		3&4 Victoria Square,Port of Spain,	
		Trinidad, B.W.I.	
INNS, Shirley R.	B.Sc.4	900 Sherbrooke St.W. Apt.43.,Montreal	HA 4667
		209 Woodlands, Que.	
IRWIN, John R.	B.Eng.4	21 Anwoth Rd., Westmount	WE 1034
ISAACS, Bernard L.	B.A.3	21 Aberdeen Ave., Westmount	FI 5798
ISCOE, Ira	B.A.3	3422 Stanley St., Montreal	HA 3840
		Prefontaine, Que.	
ISENBERG, Joel S.	B.Sc.2	5435 Park Ave., Montreal	CR 2617
ISRAELOVITCH, Mildred.	B.A.4	69 McNider Ave., Outremont	TA 1662
IVANSKI, William	B.Sc.3	1055 Shearer St., Montreal.	
IVARSON, Margaret J.	B.Sc.2	321 Mommouth, Town of Mt. Royal	AT 3839
IWASAKI, Mary	Music P.	810 Upper Belmont Ave., Montreal	DE 3620

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

JACK, Lawrence B.	Grad.Sch.	Apt.2,3425 University St.,Montreal	HA 1792
JACK, Marjorie D.	B.Sc.1.	5581 Queen Mary Rd., Hampstead	EL 3338
JACKSON, Donald S.	Theol.3.	3485 McTavish St., Montreal	PL 1649
		112 Queen St., Stratford, Ont.	
JACKSON, George E.	B.Eng.4.	Bromptonville, Que.	
JACKSON, Harold B.	Med. 4.	Douglas Hall, Montreal	BE 2885
		107 Leopold Cres., Regina, Sask.	
JACKSON, Jasmine.	B.A.1.	1850 Lincoln Ave., Montreal	FI 2253
JACKSON, Mary.	B.Eng.1.	2239 Hampton Ave., Montreal	WA 1406
JACOBS, A. Bernard.	B.C.L.2.	3495 Vendome Ave., Montreal	EL 7657
JAFFE, F. A.	Med.2.	1368 Sherbrooke St.E., Montreal	AM 9686
JAMES, Allen P.	Grad.School	4185 Marcil Ave., Montreal	DE 7295
		54 Main St. Orono, Maine.	
JAMES, Gwendolyn W.	Dent.4.	1455 Tower Ave., Montreal	FI 3434
JAMES, Margot J.	B.A.3.	Royal Victoria College, Montreal	MA 9176
		Trenton, Ont.	
JAMIESON, Molly.	B.A.3.	3558 Marlowe Ave., Montreal	DE 8634
JASMIN, Jean J.	Agr.1.	Macdonald College, Que.	Ste A. 407, 810
		3678 Lafontaine Park, Montreal.	
JEFFERIES, Jack G.	B.Eng.3.	4500 Girouard Ave.,Apt.2, Montreal	EL 3706
JEFFERSON, Anthony A.	Med.3.	Douglas Hall, Montreal	BE 2885
		High Bank, Stenner Lane,Manchester 20,Eng.	
JEFFERSON, Charles H.	Agr.2.	Macdonald College, Que.	Ste A. 407, 810
		Box 225, Bear River, N.S.	
JENKINS, John S.	B.Com.1.	Douglas Hall, Montreal	BE 2885
		Roxborough Apts., Ottawa, Ont.	
JENKINS, Robert A.	Grad.Sch.	542 Sherbrooke St.W.,Montreal	HA 0841
		34 Gillespie Ave., Toronto, Ont.	
JEROME, John Aubrey.	B.Sc.1.	5296 Waverley St., Montreal	CR 9272
JEWELL, Jack B.	Med.3.	1441 Drummond St., Montreal	MA 4171
		Fenelon Falls, Ont.	
JEWETT, Beverly Lorne.	Med.3.	3555 University St., Montreal	HA 5664
		Millville, York Co., N.B.	
JOEDICKE, Robert James.	B.Sc.3.	234 Wolseley Ave.,Montreal West	DE 9887
JOHANSEN, Robert.	B.Arch.3.	76 Maple Ave., Shawinigan Falls,Que.	
JOHNS, Ruby M.	B.H.S.3.	Macdonald College, Que.	Ste A. 806, 830
		811 Charlotte St.,Fredericton, N.B.	
JOHNSTON, Bruce Fraser.	B.Eng.2.	3520 McTavish St.,Apt.22,Montreal	HA 6973
JOHNSON, B. C.	Med.1.	538 Prince Arthur St.W., Montreal	LA 4805
		44 St.James Pl., Buffalo, N.Y.	
JOHNSON, Elizabeth.	B.Sc.1.	638 Clarke Ave., Westmount	FI 4143
JOHNSON, Frederick O.	B.Com.1.	662 Belmont Ave., Westmount	WE 2556
JOHNSON, Joan D.	B.Sc.3.	427 Lansdowne Ave., Westmount	WE 4984
JOHNSON, Phyllis Mc.	B.H.S.2.	Macdonald College, Que.	Ste A. 806, 830
		231 Strathearn Ave.,Montreal West.	
JOHNSON, Walter A.	Law 2.	30 Richelieu Place, Montreal	HA 0482
JOHNSON, William J.	B.A.1.	3485 McTavish St., Montreal	PL 1649
		86 Spring St., Brantford, Ont.	
JOHNSTON, Charles F.	Theol.3.	754 Upper Lansdowne Ave.,Westmount	EL 4515
JOHNSTON, Edmund B.	Med.3.	620 Prince Arthur St.W., Montreal	LA 9489
		Newburg, Carlton Co., N.B.	
JOHNSTON, Joan R.	B.A.1.	Royal Victoria College, Montreal	MA 9176
		Caixa Postal 252, Rio de Janeiro, Brazil.	
JOHNSTON, Marjorie E.	B.A.1.	3585 St.Famille St., Montreal	MA 5514
		Siwer Mill House,San Juan,Trinidad,B.W.I.	
JOHNSTON, Reed H.	B.Sc.4.	592 Maple Ave., St.Lambert, Que.	St.L.2609
JOHNSTON, William M.	B.Sc.1.	1945 Haig St., Montreal	CL 5025
JOHNSTONE, Nora.	B.Arch.1.	c/o Mrs. Peers, Maxwelton Apts.,	
		Sherbrooke St.W., Montreal.	
JOHNSTONE, William C.	Med.3.	545 Pine Ave., Montreal	MA 1545
		158 Spencer Ave., Lynbrook, New York.	
JONAS, Emery.	Agr.1.	Macdonald College, Que.	Ste A. 407, 810
		Cowansville, Que.	
JONES, Barbara E.	B.Arch.1.	30 Wolseley Ave.S., Montreal West	EL 3529
JONES, Eleanor P.	B.A.1.	Royal Victoria College, Montreal	MA 9176
		24 Manton Rd., Swampscott, Mass.	
JONES, E. Allen.	Med.4.	3426 McTavish St., Montreal	LA 9894
		3492 W 37th, Vancouver, B.C.	
JONES, Eric M.	B.Sc.1.	234 Kensington Ave., Westmount	WI 1947

NAME FACULTY AND YEAR ADDRESS TEL.NO.

Where two addresses are given, the second is the home address.

JONES, Evelyn Grace...B.A.2.....5421 Grove-Hill Place,Montreal.....DE 9404
JONES, Herbert B.....B.A.2.....4382 Beaconsfield Ave., Montreal.....WA 2468
JONES, John Robert....Med.3.....Verdun Protestant Hospital,Verdun,Que..YO 2401
441 E.Beardsley Ave.,Elkhart,Indianna.
JONES, Kenneth H.....B.Eng.1.....7128 Delanaudiere St., Montreal.....CA 7685
JONES, Morris Ross....B.Eng.2.....Douglas Hall, Montreal.....BE 2885
48 Monck St., St.Catherines, Ont.
JONES, Oswald L.St.E..Agr.2.....Macdonald College, Que.....Ste A. 407,
"Riverton" Kingston, Jamaica, B.W.I. 810
JONES, R.A.....Med.1.....3709 Basset St., Montreal.....PL 6339
JOSEPH, Edward D.....Med.3.....430 Prince Arthur St., Montreal.
38 Ft Washington Ave., New York, N.Y.
JOSEPH, Natalie R.....B.A.4.....1469 Drummond St., Montreal.....HA 0718
JOSEPH, Phyllis A.....B.A.3.....17 Chesterfield Ave.,Apt.2,Montreal....EL 3898
138 Moncton Ave.; Quebec, Que.
JOSEPH, Richard Henry.B.Sc.1.....Apt.92, 1469 Drummond St., Montreal....HA 0718
JOSLYN, Jay Curtis....Med.1.....3482 Durocher St., Montreal.....PL 0787
Sandusky, N.Y.
JOY, A. John.....Agr.3.....Macdonald College, Que.....Ste A. 407,
Stephenville, Newfoundland. 810
JOY, Richard Joseph...B.Eng.2.....341 Metcalfe Ave., Westmount.....WI 2465
JOYCE, Douglas.....B.A.4.....789 Des Marchais Blvd., Verdun.....YO 6112
JUDD, W.M.....Med.1.....1441 Drummond St.,Box 938, Montreal....MA 4171
Shawville, Que.
JUST, Gloria.....Music P.....3 Grove Park, Westmount.....FI 7841
JUST, Marion.....Music P.....3 Grove Park, Westmount.....FI 7841
JUST, Pauline.....Music P.....3 Grove Park, Westmount.....FI 7841

KACHANOFF, Arthur.....B.Eng.1.....454 Willowdale Ave.Apt.4, Montreal.....AT 6191
KADISH, J. E.....B.Eng.3.....664 Bloomfield Ave., Outremont.....DO 4035
KADISH, Manuel E.....B.Eng.1.....664 Bloomfield Ave., Outremont.....DO 4035
KAGAN, Abie.....B.Sc.3.....4258 De Bullion St., Montreal.
KAHANE, Helga.....B.A.3.....Apt.303,1800 McGregor St.,Montreal.....WI 5313
KAHN, A. J.....B.Sc.1.....40 Forden Crescent, Westmount.....WI 8500
KALICHMAN, Nathan....Med.2.....5618 Hutchison St., Montreal.....TA 1579
KALLIGHAN, W.B.....Dent.3.....3581 Jeanne Mance St., Montreal.....LA 9341
104 Summit St. Batavia, N.Y.
KANEB, Edward J.....B.Com.3.....Douglas Hall, Montreal.....BE 2885
136 Fourth St.W., Cornwall, Ont.
KAPLAN, Laura.....B.A.1.....44 Nelson Ave., Outremont.....DO 5442
KAPP, Robert W.....Med.3.....3460 Durocher St., Montreal.....HA 0476
Tidioute, Pa.
KAREFA-SMART,John A.M.Med.2.....3609 University St., Montreal.....LA 6307
Rotifunk, Sierra Leone,Br.W.Africa.
KARN, Gordon Mc.....Med.3.....4251 Hampton Ave., Montreal.....DE 8395
KARP, Dorothy.....B.Sc.3.....74 Prince Arthur St.W., Montreal.....HA 9862
KATCH, Michael.....B.Eng.4.....6273 2nd Ave., Rosemount.
KEARNS, Frank James...B.Sc.1.....44 Anwoth Rd., Westmount.....WE 1617
KEATING,Desiree A.C...B.A.3.....Royal Victoria College, Montreal.....MA 9176
96 Victoria Rd., Halifax, N.S.
KEEGAN, Helen.....Grad.School.....Royal Victoria College, Montreal.....MA 9176
1826 Biltmore St.N.W.,Washington, D.C.
KEEFER, Edward.....Med.4.....6 Park Place, Westmount.....WE 3264
KEENAN, Norman James..B.Com.1.....Douglas Hall, Montreal.....BE 2885
LaTuque, Que.
KEILLER, A. Jean.....B.A.1.....318 Cote St.Antoine Rd., Westmount.
KEITH, James.....B.Eng.1.....4935 Clanrald Ave., Montreal.....EL 8140
KELEN, Andrew.....Med.4.....3533 Park Ave., Montreal.....LA 7547
KELEN, Madeline H.....B.A.1.....3533 Park Ave., Montreal.....LA 7547
KELLETT, Mirle A.....Med.2.....Douglas Hall, Montreal.....BE 2885
34 Olive St., Lawrence, Mass.
KELLY, Elizabeth S....Phys.Ed.2.....2297 Oxford Ave., Montreal.....WA 5105
KEMP, Robert G.....B.Eng.1.....Douglas Hll, Montreal.....BE 2885
105 Murray Ave., Quebec, Que.
KENDLER, Emil.....B.Eng.2.....6 Richelieu Place, Montreal.....HA 4666
KENNEDY, Alice R.....Arts P.....4342 Westmount Ave., Westmount.....WE 1993

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

KENNEDY, George	Med.1	1471 Closse St., Montreal	WI 6762
		Avondale, Newfoundland.	
KENNEDY, John L.	Med.1	4161 Melrose Avenue, Montreal	DE 9664
KENNEDY, L. K.	B.Eng.4	Douglas Hall, Montreal	BE 2885
		Charlottetown, R.R.No.1, P.E.I.	
KENNEDY, Phyllis	B.A.1	4155 Oxford Ave., Montreal	DE 7003
KENNEDY, William P.	B.Sc.3	432 Grosvenor Ave., Westmount	EL 7068
KENNEY, Marguerite J.	B.H.S.2	Macdonald College, Que	Ste A. 806, 830
		143 Sherwood Drive, Ottawa, Ont.	
KENNY, Susan Ann	B.A.2	Royal Victoria College, Montreal	MA 9176
		Buckingham, Que.	
KENT, Garth	Agr.Dip.1	Macdonald College, Que	Ste A. 407, 810
		St.Jean Baptiste de Rouville, Que.	
KENYON, Mary S.	B.A.2	Royal Victoria College, Montreal	MA 9176
		Kingston, Jamaica.	
KER, Thomas D.I.	B.Sc.1	478 Mountain Ave., Westmount	WI 8637
KERR, Douglas L.	Med.4	506 Prince Albert Ave., Westmount	EL 7772
KERR, Ethel L.	B.Sc.2	400 Kensington Ave., Westmount	WE 6966
KERR, James M.	Med.4	3612 Durocher St., Montreal	HA 4781
		4128 Baker Ave., Seattle, Wash.	
KERR, John J.	B.Eng.1	428 Sherbrooke St.Apt.26, Montreal	MA 3833
		Elemstead, Ont.	
KERR, Stuart W.	Agr.Dip.1	Macdonald College, Que	Ste A. 407, 810
		Howick, Que.	
KERRIGAN, Audrey	B.A.4	500 Roslyn Ave., Westmount	DE 4248
KERRY, Colin William	Arts P.	465 Cote St.Antoine Rd.,Westmount	EL 5990
KERT, Doris M.	B.A.3 Music P.	376 Redfern Avenue, Westmount	FI 4135
KERT, M. Harold	B.Eng.1	5327 Decarie Blvd., Montreal	EL 0094
KETTLES, W. John	Med.4	3579 Hutchison St., Montreal	MA 9508
		77 Aberdeen St., Eastview, Ont.	
KHAN, Arnold S.	B.Sc.2	2047 Union Ave., Montreal	LA 3380
		28 Sutton St.,San Fernando,Trinidad,B.W.I.	
KHANER, Zelda	Teachers'(Elem)	5576 Woodbury Ave., Montreal	AT 2288
KIELLAND, Axel	B.Eng.2	321 Ballantyne Ave., Montreal West	DE 7160
KIDD, James R.	Grad.School	6266 Notre Dame de Grace Ave.,Mtl.	EL 7315
KIERANS, Martin	B.Eng.1	3502 Northcliffe Ave., Montreal	WA 5889
KILGOUR, William E.	B.A.1	Beauharnois, Que.	HA 9462
KILLAM, Robert B.	B.Eng.4	Douglas Hall, Montreal	BE 2885
		Yarmouth, N.S.	
KINCH, S.A.E.	B.Sc.3	1332 Lajoie Ave., Outremont	CA 6452
		Coralyn, Marine Gardens, Barbados,B.W.I.	
KINDLE,Katharine H.	Grad.Nurses	Alexandra Hospital,Point St.Charles	WI 5171
		33 Woodlawn Ave., Ottawa, Ont.	
KING, David George	Med.1	3417 University St., Montreal	PL 2406
		248 South Atlantic Ave., Pittsburgh, Pa.	
KING, Dorothy	Arts P.	528 Pine Ave.,W.,Apt.4, Montreal	LA 7092
KING, Helen M.	Grad.Nurses	772 Sherbrooke St.W., Montreal	HA 6268
		4421 Pine St.Central Pk.,Burnaby,B.C.	
KING, Walter George	B.Eng.1	2341 Hampton Ave., Montreal	DE 8870
KIPPEN, Anthony	B.Sc.1	4115 Cote des Neiges Rd., Montreal	WI 7289
		Como, Que.	
KIRK, John T. H.	B.Eng.3	7599 Drolet St., Montreal	CA 2645
KIRKLAND, Marie-Claire	B.A.1	133 4th Ave., Ville St. Pierre	DE 0220
KIRSCH, Milton	Grad.School	5418 Esplanade Ave., Montreal	CR 8369
KIRSCHNOR, Jack	Agr.1	Macdonald College, Que	Ste A. 407, 810
		5006 Park Ave., Montreal.	
KIRWAN, E. Gerald	B.A.2	Cote de Liesse Road, Montreal	BY 2936
KISILENKO, Duncan	B.A.4	116 George 5 Ave., Lachine	Zone 8-101
KLEIN, Albert	B.Sc.1	705 Querbes Ave.,Apt.11, Montreal	CR 9866
KLEIN, Max	B.Eng.4	362 Fairmont Ave.W., Montreal	DO 8272
KLEIN, Miriam	B.A.1	4481c Esplanade Ave., Montreal	PL 7546
KLEIN, Samuel Harold	B.Eng.1	362 Fairmount Ave.W., Montreal	DO 8272
KLEINFELD, Martin	Agr.2	Macdonald College, Que	Ste A. 407, 810
		469 Bloomfield Ave., Montreal.	
KNAPP, Gilbert L.	B.Eng.1	2438 Westhill Ave., Montreal	WA 2128
KNIGHT, Allan	B.Sc.1	861 Dollard Ave., Montreal	CA 3212

NAME FACULTY AND YEAR ADDRESS TEL. NO.

Where two addresses are given, the second is the home address.

KNIGHT, Curtis.....B.Eng.2.....1441 Drummond St., Montreal.....MA 4171
Lucas St.,St.Georges,Grenada,B.W.I.
KNIGHT, Enid P.....Grad.School.....Macdonald College, Que.....Ste A. 806, 830
Georgetown, P.E.I.
KNOWLES, Barbara N.....B.A.2.....3471 Hingston Ave., Montreal.....DE 6811
KNOWLES, Diana.....Music P.....15 Grove Park, Westmount.....FI 9780
KNOWLES, June A.....B.A.1.....23 de Casson Road, Westmount.....WI 6927
KNOX, A. William D.....Med.3.....3525 University St., Montreal.....MA 4352
303 Pendozi St., Kelowna, B.C.
KNUBLEY, Myrian B.....Arts P.....5569 Queen Mary Road, Hampstead.....EL 1555
KOBERNICK, D.R.....Med.4.....745 De L'Epee Ave., Outremont.....DO 5181
KOBERNICK, Sidney D....Med.4.....125 St.Joseph Blvd.W., Montreal.....DO 8523
KOCH, Dorothy.....B.A.4.....690 Victoria Ave., Westmount.....DE 4183
KOCH, Donald E.....B.Sc.1.....690 Victoria Ave., Westmount.....DE 4183
KOLB, Alice C.....B.H.S.1.....Macdonald College, Que.....Ste A. 806, 830
52 St.George St.,Drummondville, Que.
KOLB, Robert W.....B.Sc.3.....Y.M.C.A. Drummond St., Montreal.....MA 4171
52 St. George St., Drummondville, Que.
KONOWITZ, Sarina.....B.A.2.....4885 Queen Mary Rd., Montreal.....EX 1943
KORMAN, Henry.....B.Sc.3.....4611 Park Ave., Montreal.....HA 5431
Noranda, Que.
KORMAN, William.....B.Sc.1.....4611 Park Ave., Montreal.....HA 5431
179 Third Ave., Noranda, Que.
KOSITSKY, Hilda.....Teachers(Int.)..609 Querbes Ave., Outremont.....DO 2083
KOVACS, Robert V.....B.Eng.1.....2055 Mansfield St., Montreal.....HA 5302
KRAKOWER, David.....B.Sc.3.....6135 Durocher St., Montreal.....DO 5203
KRASA, Ladislas.....Agr.2.....Macdonald College, Que.....Ste A. 407, 810
Budapest, Hungary.
KRASHINSKY, Harry.....B.Eng.2.....4806 Clark St., Montreal.....MA 2669
KRAVITZ, Fayge.....B.Sc.1.....5357 Waverly St., Montreal.....DO 8923
KRONITZ, Leon.....B.A.3.....5186 Durocher St., Outremont.....CA 8738
KUNIGISKIS, Albert A...B.Sc.1.....Box 1107, Lethbridge, Alberta.
KUNIN, Kalman Clarence.Med.4.....5732 Somerled Ave.Apt.6, Montreal.....DE 1129
KUSSNER, Dorothy.....B.A.4.....6249 De Vimy Ave., Montreal.....AT 9194
KWIECINSKA, H. Maria...B.Sc.1.....1843 Dorchester St.W., Montreal.....FI 2955

LABELLE, Jean Guy.....B.Eng.1.....5789 Deom Ave., Montreal.....AT 3066
LACHANCE,Francois de S.Agr.3.....Macdonald College, Que.....Ste A. 407, 810
12 Cliff View Place, Quebec City.
LACHANCE, Paul R.....Agr.3.....Macdonald College, Que.....Ste A. 407, 810
12 Cliff View Place, Quebec City.
LACKMAN, G.L.....B.Eng.3.....639 De L'Epee Ave.Apt.5, Outremont.....DO 7585
LAFLAMME, William D....B.Sc.1.....3615 Durocher, Montreal.
804 Bromson Ave., Ottawa, Ont.
LAFLECHE, Jean P.....Agr.1.....Macdonald College, Que.....Ste A. 407, 810
Isle Perrault, Que.
LAFONTAINE, Jean C.....Music P.....456 Pine Ave. West, Montreal.....MA 1890
LAFONTAINE, Marie C....B.A.4.....456 Pine Ave. West, Montreal.....MA 1890
LAFONTAINE, Marthe M...B.A.3.....5665 Dunmore Ave., Montreal.....AT 3403
LAFOREST, Brother
Laurian, C.S.C.....Arts P.....3791 Queen Mary Rd.,Montreal.
Notre Dame, Indiana.
LAING, Eleanor A.....Arts P.....44 Windsor Ave., Westmount.....DE 3401
LAING, Eleanor J.....B.A.4.....33 Campbell Ave., Montreal West.....EL 0732
LAING, J. Campbell.....B.Sc.1.....33 Campbell Ave., Montreal West.....EL 0732
LAJOIE, Rosaire.....B.Com.3.....3458 Hutchison St., Montreal.....LA 2648
137 Principale, Baie Shawinigan,(St Maurice)
LAKE, Madeline H.....Grad.Sch.....5 Parkman Place, Montreal.
310 Bathurst St., Toronto, Ont.
LALONDE, Hubert L.....B.Eng.2.....Boucherville 373, Que.
LALONDE, Marie C.....B.Sc.1.....3157 Van Horne Ave., Montreal.....AT 7819
LAMAR, Harmon T.....Dent.4.....477 Prince Arthur St.W., Montreal.....LA 3691
Dannemora, N.Y.
LAMBEK, Joachim.....B.Sc.2.....5121 Western Ave., Montreal.....WA 1809
LAMBERT, Martin J.....B.Arch.5.....3410 Atwater Ave., Montreal.....WI 0274
LAMONT, Ruth M.....B.A.4.....1540 Summerhill Ave., Montreal.....WI 6566
LAMOUREUX,Paul-Emile...B.Eng.4.....10581 Grande Allée, Quebec City.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

LAMPESIS, Peter T.	Med.4	3426 McTavish St., Montreal 103 Broadway, Dover, N.H.	LA 9894
LANCIAULT, Roger	B.Sc.1	5225 Rue Délorimier, Montreal	AM 4214
LANDAUER, Fred	B.Eng.2	3422 Stanley St., Montreal	HA 3840
LANDMAN, Vivian F.D.	B.Sc.1	3820 Decarie Blvd., Montreal 73 Staverton Rd., London,N.W.2, Eng.	EL 6103
LANDRY, David M.	B.Eng.1	493 Mt.Pleasant Ave., Montreal	FI 3813
LANDY, Mona	B.Sc.4	465 Grosvenor Ave., Montreal	DE 1573
LANE, Alan G.	B.Sc.1	318 Brock Ave. N., Montreal West "Manora" White Rose Lane, Woking, Surrey, Eng.	WA 4148
LANE, Alec W.A.	B.A.3	318 Brock Ave. N., Montreal West	WA 4148
LANE, Marjorie C.	B.H.S.2	Macdonald College, Que. 3638 Cypress St., Vancouver, B.C.	Ste A. 806, 830
LANE, Robert M.	Med.2	1441 Drummond St., Montreal 2856 Dewdney Ave., Victoria B.C.	MA 4171
LANG, Alexander G.	Med.3	Douglas Hall, Montreal 165 Osborne W., N.Vancouver, B.C.	BE 2885
LANG, Moe R.	B.Sc.2	5401 Cote St. Luc Rd., Montreal	EL 0038
LANGLEY, Anne A.	B.Sc.3	Royal Victoria College, Montreal Whonnock, B.C.	MA 9176
LANGLEY, Margaret G.	B.Sc.2	Royal Victoria College, Montreal 239 Burnham St., Peterborough, Ont.	MA 9176
LANGLOIS, Charles	Agr.2	Macdonald College, Que. 51 Boisseau St., Quebec City.	Ste A. 407, 810
LANGLOIS, Maurice	B.C.L.3	495 Prince Arthur W.,Apt.27, Montreal 371 Laviolette Ave., Trois-Rivieres, Que.	MA 4337
LANGRIDGE,Patricia H.	B.Arch.1	78 Hillcrest, Montreal West	DE 8689
LANGSTON, Walter J.	B.Eng.1	60 Sunnyside Avenue, Westmount	WE 4619
LAPEDIS, Myer	B.Sc.3	5426 Brodeur Ave., Montreal	DE 8203
LAPHKAS, Mary D.	Arts P.	904 Hartland Ave., Outremont	AT 3625
LAPIERRE, Guy	Med.1	6330 Delorimier Ave., Montreal	CA 5296
LAPIERRE, Marcella R.	Teachers'(Elem)	486 Bibaud St., Montreal	DO 8231
LAPIN, Murray	B.C.L.2.	5465 Esplanade Ave., Montreal	CR 4335
LAPIN, Sybil H.	B.A.3	5176 Park Ave., Montreal	CR 8358
LAPORTA, Philip	B.Eng.1	1444 St. Elizabeth St., Montreal	LA 4709
LAREAU, Fernand	B.Eng.3	5233 Lasalle Blvd., Verdun, Que	YO 9503
LAROCHELLE, John R.	Dent.2	3478 McTavish St., Montreal 42 Bacon St., Biddeford, Maine.	PL 7412
LAROCQUE, Antoine B.	Agr.1	Macdonald College, Que. R.R. No.1, Joliette, Que.	Ste A. 407, 810
LARRABURE, Eugenio	B.Sc.1	1500 Chomedy St., Montreal Appartad 343, Lima, Peru.	FI 4595
LASCH, Ernst	B.Sc.2	1441 Drummond St., Montreal 12 Eaton Ave., London, Eng.	MA 4171
LASH, Michael	B.Eng.1	172 Demontigny E., Montreal.	
LATT, Ruth R.	B.Sc.3	304 Querbes Ave., Montreal	DO 3242
LAU, Neil A.	B.Sc.1	3433 Peel St., Montreal 123 Henry St.,Port-of-Spain,Trinidad,B.W.I.	HA 2412
LAUREN, Olli K.	B.Eng.1	2185 Souvenir St., Montreal 46 de la Ronde St., Quebec, P.Q.	FI 5336
LAURIE, Margaret M.	B.H.S.1	Macdonald College, Que. Hemmingford, Que.	Ste A. 806, 830
LAURIN, Louis B.	B.A.3	4758 Notre Dame St.W., Montreal	WE 1641
LAURIN, Martha G.	B.A.2	4758 Notre Dame St.W., Montreal	WE 1641
LAVIGNE, Arthur	B.Eng.2	59 Dorval Ave., Dorval	Lach. 795-J
LAVIS, Barbara E.	B.A.2	4110 Harvard Ave., Montreal	DE 8164
LAW, Beatrice E.L.	B.H.S. 3	Macdonald College, Que. 1135 Sifton Blvd., Calgary, Alta.	Ste A. 806, 830
LAW, John R.	B.Sc.3	1617 Ducharme Ave., Outremont	DO 4230
LAWLAND, Eddie N.	B.A.2	1815 Ducharme Ave., Outremont	AT 1564
LAWRENCE, Dorothy K.	Grad.Sch.	772 Sherbrooke St. W., Montreal 4231 Verdun Ave., Verdun.	HA 6268
LAWRENCE, Keith A.	B.Eng.1	3746 Ethel St., Verdun	FI 8281
LAWSON, Robert A.	Med.2	Douglas Hall, Montreal 1529 Victoria Ave., Windsor, Ont.	BE 2885
LAYTON, Robert E.J.	B.Sc.1	2526 Mayfair Ave., N.D.G.	DE 7887

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

LAZARUS, Charles J.	Music	4564 Hutchison St., Montreal	CR 0614
LAZARUS, Eleazar J.	Agr.3	Macdonald College, Que.	Ste A. 407, 810
		4564 Hutchison St., Montreal.	
LEACH, John G.	B.Eng.3	41 Arlington Ave., Westmount	WE 1673
LEACOCK, Stephen L.	Grad.Sch	3869 Cote des Neiges Rd., Montreal	FI 1208
		Orillia, Ont.	
LEAVITT, Helen R.E.	B.A.2	623 Sydenham Ave., Westmount	FI 1066
LEAVITT, Rosilla F.	B.A.3	623 Sydenham Ave., Westmount	FI 1066
LEBEL, Jean E.	B.Sc.3	3485 McTavish St., Montreal	PL 1649
		Namur, Que.	
LEBLANC, Raymond F.	Grad.Sch	421 Mt. Royal West, Montreal	DO 8620
LECKIE, Frank P.	Med.4	Apt.2,495 Prince Arthur St.W.,Montreal.	MA 3983
		271 Yale Ave., Winnipeg, Man.	
LECLERC, Jules	Dent.1	2070 McGill College Ave., Montreal.	
LEDAIN, Gerald E.	B.A.1	4586 Decarie Blvd., Montreal	EL 3425
LEDREW, Ralph G.	Theol.3	475 Prince Arthur St.W., Montreal.	
		Cupids, Conception Bay, Newfoundland.	
LEDUC, Claude B.	B.Com.3	3407 Peel St., Montreal	LA 7468
		116 Main St., Hull, P.Q.	
LEDUC, Real Jos.	Grad.Sch	1855 St André, Montreal.	
		Macdonald College,Ste Anne de Bellevue,Que.	
LEE, Alfred K.	B.Eng.1	1242 St. Urbain St., Montreal	HA 2684
LEE, Eleanor A. G.	Teachers'(Elem.)	4172 Melrose Ave., N. D. G.	DE 9122
LEE, Robert G. H.	B.Sc.1	1162 St Urbain St., Montreal	MA 9720
LEE, William U.	B.Eng.2	1162 St Urbain St., Montreal	MA 9720
LEE, Wilson J.	Med.4	2286 Clifton Ave., Montreal	EL 9145
LEFCOE, Neville M.	B.Sc.1	486 Strathcona Ave., Westmount	WE 5710
LEFEBURE, George T.G.	Med.2	424 Sherbrooke St.W.Apt.32, Montreal.	
		Huntingdon, Que.	
LEFEBVRE, Gaston.	B.Com.2	5571 Woodbury, Montreal	AT 8731
LEFEBVRE, Paul E.	B.Eng.3	5571 Woodbury, Montreal	AT 8731
LEGARE, Joseph A.G.	B.Sc.2	342 Carré St Louis, Montreal	HA 5788
		122 Central St., Granby, Que.	
LEGRIS, Ernest W.	B.Eng.3	Douglas Hall, Montreal	BE 2885
		28 Georgina Ave., Haileybury, Ont.	
LEGAULT, Gisele	Music P.	3520 McTavish St., Montreal	LA 4539
		Lachute, Que.	
LEHMANN, Elsa	Med.1	Apt.9, 495 Prince Arthur W.,Montreal.	PL 3537
		18 Summerhill Gardens, Toronto.	
LEIBOVITZ, Jane	B.A.2	5718 Notre Dame de Grace Ave.,Mtl.	EL 4269
LEITH, Burny A.	B.Eng.3	3480 Durocher St., Montreal	PL 0787
		770 Victoria Road, Sydney, N.S.	
LELACHEUR, Arthur G.	Agr.3	Macdonald College, Que.	Ste A. 407, 810
		Sackville, N.B.	
LEMCO, Blanche	B.Arch.3	4560 St. Catherine St.W.,Montreal.	FI 3928
LEMCO, Ian	B.Sc.1	4560 St. Catherine St.W.,Montreal.	FI 3928
LEMESURIER,Margaret G.	B.A.4	419 Roslyn Ave., Westmount	EL 7190
LEMESURIER, James R.	B.A.2	419 Roslyn Ave., Westmount	EL 7190
LENNOX, Robert H.	Med.4	1655 Bennett Ave., Montreal	CL 3757
LEON, E. Elizabeth.	Med.4	Children's Memorial Hospital,Cedar Ave.	FI 4661
		45 Spruce St., Westerly, R.I.	
LEONARD, Carl	Med.4	2100 Marlowe Ave., Montreal	DE 3571
		1589 City Hall Ave., Montreal.	
LEONARD, Rhona C.	B.Sc.2	3498 Walkley Ave., Montreal	DE 7696
LEONARDS, Gerald A.	B.Eng.4	4137 Esplanade Ave.,Apt.6, Montreal.	
LEOPOLD, Irwin D.	B.A.2	3781 Westmount Blvd., Westmount	WE 2057
LEPAGE, Gerard.	B.Sc.1	6638 Delorimier Ave., Montreal.	
LEPROHON, Bernard.	B.Eng.1	1831 Desjardins, Montreal	CL 7175
LERMAN, Bella	B.A.4	112 Villeneuve West, Montreal	LA 8349
LESLIE, Adrienne G.M.	Grad.School	3660 Lorne Crescent, Montreal.	
		29 Monroe Place, Brooklyn, N.Y.	
LESLIE, William T.	B.Arch.3	925 Davaar Ave., Outremont	CA 8451
LESPERANCE, Pierre.	B.Eng.1	3480 Laval Ave., Montreal	LA 7780
L'ESPERANCE, Robert L.	B.Eng.3	35 Spring Grove Crescent, Outremont.	CA 7602
LESSARD, Pierre	Agr.1	Macdonald College, Que.	Ste A. 407, 810
		1815 Van Horne Ave., Montreal.	
LESSER, Norman	Music	4777 Lacombe Ave., Montreal	AT 3751

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

LESTER, William A.	B.Com.1	1441 Drummond St., Montreal 186 Frederick St., Kitchener, Ont.	MA 4171
LEUNG, Wah	Dent.3	189 Dorchester St. W., Montreal. Edmonton, Alta.	
LEVASSEUR, Arthur E.J.	B.Sc.1	220 Belgrave Ave.,N.D.G.,Montreal	WA 4730
LEVIN, Meta S.	B.A.3	636 Belmont Ave., Westmount.	WE 2876
LEVINE, Annabel	B.Sc.1	1583 Lajoie Ave., Outremont	CA 5471
LEVINE, Arthur H.	B.Sc.4	1583 Lajoie Ave., Outremont	CA 5471
LEVINE, Harold	Agr.2	Macdonald College, Que. Ste Agathe des Monts, Que.	Ste A. 407, 810
LEVINE, Hillel	B.Sc.2	1214 Lajoie Ave., Outremont	CA 1744
LEVINOFF, Samuel	B.Eng.3	876 Rockland Ave.,Outremont.	CA 3536
LEVINSON, Joan D.	B.A.2	526 Victoria Ave.,Westmount	EL 7890
LEVITAN, Benjamin A.	Med.2	3610 Durocher St.Apt.3, Montreal 71 Daly Ave., Ottawa, Ont.	HA 2482
LEVITT, Morton	B.Eng.3	5436 Hutchison St., Montreal	CR 8983
LEVY, Mildred M.	Teachers'(Elem.)	5386 Waverley St., Montreal.	
LEWIN, Frank S.	B.Sc.1	3000 Breslay Rd., Montreal	FI 8920
LEWIS, John M.	B.Sc.1	31 Ramezay Rd., Westmount	FI 4110
LEWIS, Marjorie G.	B.A.4	31 Ramezay Rd., Westmount	FI 4110
LEWIS, Raymond L.	Agr.2	Macdonald College, Que. 6989 Wiseman Ave., Montreal.	Ste A. 407, 810
LEWIS, Revis C.	Med.3	545 Pine Ave. West, Montreal Mooers, N.Y.	MA 1545
LEZNOFF, Louis	B.Eng.1	26 St. Cyril Ave., Montreal	CA 9851
LIEBMAN, Robert E.	Med.1	470 Mountain Ave., Westmount 2502 Ken Oak Rd., Baltimore, Md.	WE 1796
LIFSHITZ, Sylvia	B.A.3	1226 St. Matthew St., Montreal	FI 4166
LIKELY, John C.	Med.3	3483 Peel St., Montreal 34 Seely St., Saint John, N.B.	LA 0643
LIMOGES, Paul F.	B.Eng.2	3518 Vendome Ave., N. D. G.	EL 5401
LINDO, Clinton L.	B.Sc.2	795 Lusignan St., Montreal c/o Louis A. Lindo, Box 263, Panama.	FI 7017
LINDSAY, Charles G.	B.Sc.1	Douglas Hall, Montreal Gaspé, Que.	BE 2885
LINDSAY, Eleanor J.	B.H.S.2	Macdonald College, Que. Kimberley, B.C.	Ste A. 806, 830
LINDSAY, Jean M.	B.H.S.2	Macdonald College, Que. Box 617, Arnprior, Ont.	Ste A. 806, 830
LINDSAY, Sheila S.	Teachers'(Elem.)	Macdonald College, Que.	Ste A. 375
LING, George McD.	Med.2	3433 Peel Street, Montreal 13 - 15 Woodford St.,Port-of-Spain,Trinidad,B.W.I.	HA 2412
LION, Edgar	B.Eng.2	4869 Victoria Ave., Montreal	EL 0285
LIPS, Alair	Grad.Sch	Macdonald College, Que. Terrace, B.C.	Ste A. 739
LITHWICK, Sidney	B.Arch.5	3567 Hutchison St., Montreal 392 Besserer St., Ottawa.	PL 1694
LITTLE, Alan R.	B.Sc.2	3419 Stanley St., Montreal	PL 1312
LITTLE, Joan I.	B.A.1	3808 Grey Ave., Montreal	DE 7793
LIVERANT, Manja	B.A.2	4031 Dorchester St., Montreal	FI 2956
LIVERANT, Nadja	B.Com.3	524 Argyle Ave., Westmount	WI 1244
LIVINGSTONE, Constance	Grad.Sch	2101 University St., Apt.32	LA 1025
LLOYD, Lewis E.	Agr.2	Macdonald College, Que. St.Lin, Que.	Ste A. 407, 810
LLOYD-SMITH Walter C.	Med.3	692 Victoria Ave., Montreal	EL 2860
LOBLEY, Marjorie P.	B.A.3	72 Kenaston Ave.,Town of Mt.Royal	AT 4307
LOCHHEAD, Douglas G.	B.A.3	Douglas Hall, Montreal 389 Third Ave., Ottawa, Ont.	BE 2885
LOCHHEAD, Herbert H.	B.Eng.2	3567 Shuter, Apt.2, Montreal	HA 4988
LOCKE, Charles R.	Med.3	3460 Durocher Ave., Montreal 237 University Terrace, Reno, Nevada.	HA 0476
LOCKERBIE, Jean W.	B.H.S.3	Macdonald College, Que. 10955-90th Ave., Edmonton, Alta.	Ste A. 806, 830
LOCKHART, Donald D.	B.Eng.1	27 Maple Ave.,Ste Anne de Bellevue	Ste A.651
LOCKHART, John A.	Med.1	3483 Peel St., Montreal Bath, N.B.	LA 0643
LOCKHART, Lloyd MacD.	Arts P.	2027 Stanley St., Montreal.	

NAME	FACULTY AND YEAR	ADDRESS	TEL.NO.

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LOCKWOOD, Richard D.G.	B.Sc.1	5913 Lasalle Blvd., Verdun	YO 4552
LOBENBERG, Leopold	B.Eng.1	4837 Hutchison St., Montreal	CR 4763
LOEWY, Ariel G.	B.Sc.2	723 Upper Belmont Ave., Westmount	DE 4309
LOGAN, James Charles	Grad. School	Box 91, Kenogami, Que.	
LONG, Avard Chipman	Med.2	545 Pine Ave. West, Montreal	MA 1545
		Hampton, New Hampshire.	
LONG, Louise O.	Arts P.	3480 University St., Montreal	PL 2507
LOOKMAN, Stephen	B.Sc.1	3485 McTavish St., Montreal	PL 1649
		Amsterdam, Holland.	
LORTIE, Dan C.	B.A.1	4346 West Hill Ave., Montreal	DE 1477
LOUIE, Joan	B.A.1	3429 Ste Famille St., Montreal.	
		610 Yates St., Victoria, B.C.	
LOVE, Bartlett G.	B.Sc.1	6673 Chambord St., Montreal	TA 3788
LOWE, Stanley Cathcart	B.Eng.4	3515 Lorne Ave., Montreal	MA 8249
		P.O. Box 62, Cochrane, Ont.	
LOWIE, Adele	Teachers'(Elem)	4203 Dorchester St.W., Montreal	WI 5555
LOZINSKI, Joyce N.	B.A.1	620 Grosvenor Ave., Westmount	DE 9911
LUBIN, Isadore	Dent.4	702 Bloomfield, Outremont, Que.	CA 4562
LUCAS, Alexander	Music	644 Lagauchetiere St., Montreal	BE 0656
		Addison, Ont.	
LUCAS, Graham B.	B.Eng.1	39 Dufferin Rd., Hampstead.	
		Carp, Ontario.	
LUCAS, Maragret J.	B.A.2	78 Sunnyside Ave., Westmount	FI 2715
LUDWIG, Ralph A.	Grad.Sch.	Macdonald College, P.Q.	Ste. A. 407,810
LUMSDEN, Jean A. Gould	Grad.Sch.	4352 Decarie Blvd., Apt.4, Montreal	EL 8629
LUNDGREN, Lawrence E.	Med.2	3478 McTavish St., Montreal	PL 7412
		11 Normal Ave., Plattsburg, N.Y.	
LUNNEY, Thomas E.	Med.4	3555 University St., Montreal	HA 5664
		110 Union St., Saint John, N.B.	
LUNSTROTH, Jost	B.Sc.2	3609 University St., Montreal	LA 6307
		c/o Rev.J.L.Smith,423 Queen St.W.,Toronto.	
LUSENA, Charles V.	Agr.P.	Macdonald College, Que.	Ste A. 407,
		165 Commonwealth Ave., Boston, Mass.	810
LUSSIER, Claude	B.C.L.1	7839 Foucher St., Montreal	CA 1875
LUTFY, Jean A. Gould	B.Com.2	12 Hazelwood Ave., Outremont	AT 3461
LYNAM, Josephine B.	Arts P.	1495 Crescent St., Montreal	PL 2324
		183 Brunswick St., Fredericton, N.B.	
LYNES, Elizabeth	Music P.	578 Cote St.Antoine Rd., Westmount	DE 5888
LYON, Harold Percy	D.P.H.	4102 Hingston Ave., Montreal	DE 3429
LYTLE, Elizabeth F.	B.A.2	84 Percival Ave., Montreal West	EL 9048
MCALARY, Miriam Ellen	B.H.S. 2	Macdonald College, Que.	Ste A. 806,
		98 Lawson St., Edmundston, N.B.	830
MACALLISTER, Robert	B.Eng.1	331 Pine Ave., St. Lambert	Zone 7-632
McARTHUR, Jack Charles	B.Sc.2	1968 St. Luke Street, Montreal.	
		Russell, Ont.	
MACARTHUR, Lillian E.	Grad.Nurses	3429 St. Famille St., Montreal	PL 6807
		Box 536, Pictou, N.S.	
MACASKILL, Peter M.	B.A.3	40 Marsolais Ave., No. 2, Montreal	CA 4357
MACAULAY, C. Jean	B.A.4	598 Grosvenor Ave., Westmount	EL 5061
MCAUSLAND, Robert B.	B.Sc.1	1564 Stanley St., Montreal	MA 2681
MCBRIDE, John S.	Theol. 1	3576 Lorne Ave., Montreal.	
MCBRIDE, William B.	B.Sc.1	534 Prince Arthur Ave., Montreal	HA 9386
		Island Pond, Vt.	
MCBRIDE, William C.	Theol.1	939 Regent Ave., Montreal	DE 4314
MCCAFFREY, Merla J.	B.H.S. 4	Macdonald College, Que.	Ste A. 806,
		Princeton, B.C.	830
MCCAIG, John Dougald	Agr.3	Macdonald College, Que.	Ste A. 407,
		Ormstown, Que	810
MCCALL, Patricia Agnes	B.A.3	Royal Victoria College, Montreal	MA 9176
		186 Kings Rd., Sydney, N.S.	
MCCALLUM, Duncan I.	B.Eng.3	3507 University St., Montreal	PL 0548
		Thetford Mines, Que.	
MACCALLUM, Evan Alex	Med.1	9 Ellerdale Road, Hampstead	DE 8573

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

McCAMMON, George A.	B.Com.1	Central Y.M.C.A.,1441 Drummond St., Montreal	MA 4171
		192 Johnson St., Thetford Mines, Que.	
McCALLUM, J. Lester.	Med.3	1174 St.Mark St.Apt.63, Montreal	WI 8195
		Pointe-au-Chene, Que. R.R.I.	
McCAMMON, Violet L.	B.A.1	6211 Monkland Ave., Montreal	WA 3971
McCARTER, Beatrice.	B.A.3	Royal Victoria College, Montreal	MA 9176
		214 Hamilton Ave.,St.Johns,Newfoundland.	
McCARTHY, Theodore.	Med.1	3620 Durocher St., Montreal	MA 6724
		1317 Shattuck St., Berkeley, Calif.	
McCLAY, Henry Walter.	Dent.1		
		17 Patten St., Bangor, Maine.	
McCLELLAN, Joseph L.	B.Eng.3	1435 St. Mark St.,Apt.4, Montreal	WI 0483
McCLENAGHAN, G.Gordon.	Teachers'(Inter.).		
		Huntingdon, Que.	
McCLINTOCK, Lloyd A.	Law 2	Douglas Hall, Montreal	BE 2885
		Isle Maligne, Que.	
McCOLL, George D.	B.Sc.1	3637 University St., Montreal	MA 1824
		Iroquois, Ont.	
McCOLM, George T.	B.A.4	3609 University St., Montreal	LA 6307
		New Richmond West, Que.	
McCOMBE, Margery O.	B.A.1	573 Grosvenor Ave., Westmount	EL 8498
McCONKEY, John Irving.	Lib.School	6232 Ave. De Vimy, Montreal	AT 4213
		103 So.William St., Johnstown, N.Y.	
McCONNELL, Gordon R.	B.Eng.4	59 Prospect St., Westmount.	
McCONNELL, Lucille M.	Phys.Ed.2	Royal Victoria College, Montreal	MA 9176
		803-9th Ave. N., Saskatoon.	
McCONNELL, Wm. Stewart.	B.Eng.1	94 Cardinal Ave., St. Laurent	BY 1549
McCORT, Anne M.	B.A.2	1 Decasson Road, Westmount	FI 6202
McCORT, Joan C.	B.A.3	1 Decasson Road, Westmount	FI 6202
McCRACKEN, Florence E.	Arts Partial Music P.	32 Ballantyne Ave.N., Montreal West.	EL 5225
McCRAE, Anna Isabel.	B.A.2	161 Desaulniers Blvd., St.Lambert.Zone 7-321	
McCREA, James C.	Med.3	3637 Oxenden Ave., Montreal	MA 8729
		Moncton, N.B. R.R.1.	
McCRIMMON, Mary.	B.A.3	Royal Victoria College, Montreal	MA 9176
		Ave.Visc de Albuquerque 189, Rio de Janeiro, Brazil.	
McCURDY, Elizabeth O.	B.Sc.1	4342 Harvard Ave., Montreal	DE 2298
McCURDY, John W.	Arts P.	4402 Beaconsfield Ave., Montreal	DE 4944
McCUTCHEON, James.	Dent.1	3561 Lorne Ave., Montreal	MA 9541
		310 Bender Ave.,Roselle Park,N.J. U.S.A.	
McCUTCHEON, O. Earle.	Med.1	3621 Oxenden Ave., Montreal	MA 5453
		Mouth of Keswick, York Co. N.B.	
MacDONALD, Allison D.	Med.2	3480 Durocher St., Montreal.	
		Albion Cross, St. Peter's, P.E.I.	
MacDONALD, Catherine.	B.H.S. 2	Macdonald College, Que.	Ste A. 806,
		126 Pine St., Brockville, Ont.	830
MacDONALD, Angus J.	Theol.2	4005 Lacombe Ave., Outremont, Que.	AT 4850
		North Sydney, N.S.	
MacDONALD, Frank J.	B.Sc.3	Otterburn Park, Que.	
		41 MacLaren St., Ottawa, Ont.	
MacDONALD, Ian S.	B.Eng.2	592 Cote St.Antoine Rd.,Westmount.	EL 4310
McDONALD, James G.	Theol.2	3485 McTavish St., Montreal	PL 1649
		Mahone Bay, N.S.	
MacDONALD, John A.	B.Eng.1	3425 St. Famille St., Montreal	MA 7428
		136 Fentiman Ave., Ottawa.	
MacDONALD, Joseph.	Theol.3	3485 McTavish St., Montreal	PL 1649
		Sylvester, Pictou Co., N.S.	
MacDONALD, J. Austin.	Med.3	620 Prince Arthur St., Montreal	LA 9489
		Mulgrave, N.S.	
MacDONALD, Mairi.	B.Sc.1	9 Springfield Ave., Westmount	WE 4850
MACDONALD, Ruth M.	B.A.3	Royal Victoria College, Montreal	MA 9176
		Spring Garden Road, Halifax, N.S.	
MACDONALD, Roderick R.	B.A.4	273 Willibrod Ave., Verdun	YO 7675

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

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MacDONALD, William K.	Med.4	3433 Peel St., Montreal	HA 2412
		20 Mountain St., Granby, P.Q.	
McDOUGALL, Charles O.	B.Sc.1	3507 University St., Montreal	PL 0548
		46 Victoria Ave., Brockville, Ont.	
MacDOUGALL, Daniel	Grad.School	Macdonald College, Que	Ste A. 739
		Lennoxville, Que.	
McDOUGALL, Elspeth S.	Phys.Ed.1	5539 Western Ave., Montreal.	
MacDOUGALL, George	Dent.1	620 Prince Arthur St., Montreal	LA 9489
		Lennoxville, Quebec.	
McDOUGALL, Ronald H.	B.Eng.3	3544 Mountain St., Montreal	MA 1951
McDOUGALL, Ruth	Med.1	1595 MacGregor St.,Montreal	FI 1630
MacDOWALL, F.D.H.	B.Sc.1	Douglas Hall, Montreal	BE 2885
		3065 Uplands Rd., Victoria, B.C.	
McDOWALL, M. Franklin.	B.Sc.3	3485 McTavish St., Montreal	PL 1649
		P.O. Box,20, St. Vincent, B.W.I.	
McDOWELL, Walter	Med.2	2057 Victoria St., Montreal	LA 3848
		Charteris, Que.	
McEACHERN, Clinton W.	B.Eng.2	419 Prince Arthur St., Montreal	HA 1088
		Box 90, Stellar St., Stellarton, N.S.	
MacEWAN, Douglas W.	B.Sc.1	3534 University St., Montreal	LA 9012
MacEWAN, M. Aynslee	B.H.S.4	Macdonald College, Que	Ste A. 806, 830
		Russell, Ont.	
McFADYEAN, Margaret A.	B.A.2	376 Portland Ave.,Town of Mt.Royal	EX 1056
McFARLANE, Arthur H.	Grad.School	No.7 District Depot(CA)Fredericton,N.B. F'ton	120
		Huntingdon, Que.	
MACFARLANE, Joan M.	B.Sc.3	313 Mommouth Ave.,Town of Mt.Royal	AT 1262
McFARLANE, Ann	B.A.1	637 Sydenham Ave., Westmount	WE 4266
MacFIE, Robert A.	B.Sc.3	1171 Hope Ave., Montreal	WI 6051
McGARRY, Margaret W.	B.A.4	6 Ingleside Ave., Montreal	WE 6649
McGIBBON, Donald S.	B.Sc.2	3581 University St., Montreal	MA 3842
		27 McGill St., Hawkesbury, Ont.	
McGIBBON, Ralph W.	Med.2	3025 Sherbrooke St.W.Apt.20, Montreal.	
		Edmonton, Alberta.	
MacGOWAN, Amy	Grad.School	6515 Cote St. Luc Rd., Montreal	DE 0225
McGOVERN, Vincent H.	B.Sc.1	2034 University St., Montreal	MA 0026
		Richmond, Que.	
McGREER, Edith E.	B.H.S.3	Macdonald College, Que	Ste A. 806, 830
		428 Sherbrooke St.W., Montreal.	
McGREGOR, A. Anderson.	B.Sc.2	3851 University St., Montreal	BE 2885
		103 High St., New Glasgow, N.S.	
McGREGOR, Luella F.	B.H.S.3	Macdonald College, Que	Ste A. 806, 830
		3820 Old Orchard Ave., Montreal.	
MacGREGOR, Warren S.	Grad.School	495 Prince Arthur St.Apt.6, Montreal	LA 8617
		Spirit Lake, Idaho, U.S.A.	
McGUINNESS, J. D'Arcy.	B.A.1	Douglas Hall,Montreal	BE 2885
		511 Lakeshore Rd., Mimico, Ont.	
McGUIRE, Claire	B.Sc.1	435 Querbes Ave., Outremont	DO 1428
MacGUIRE, Hugh	Med.3	Children's Memorial Hospital, Montreal.	FI 4661
		4 Agnew St., Montgomery, Ala., U.S.A.	
McGUIRE, Aileen	Phys.Ed.2	435 Querbes Ave., Outremont	DO 1428
MacHUTCHIN, John	Grad.School	3580 Durocher St., Montreal	PL 7519
		229 Dennison Ave., Granby, Que.	
McINERNEY, A. J.	Med.1	3694 St. Famille St., Montreal	HA 0492
		243 Charlotte St.,Saint John, N.B.	
McINTOSH, Hamish W.	Med.4	459 Clarke Ave., Westmount	FI 4868
MacINTOSH, Robert M.	B.A.3	3647 University St., Montreal	MA 2806
		Stanstead, Que.	
McINTYRE, Diana M.	B.Sc.1	Royal Victoria College, Montreal	MA 9176
		354 London Rd., Sarnia, Ont.	
MacISAAC, Allan Leo.	Med.1	3694 St. Famille St., Montreal	HA 0492
		80 Crescent St., Sydney, N.S.	
MacIVER, Anna M.	B.Sc.3	371 Redfern Ave., Westmount	WI 3590
MacIVER, Beatrice A.	B.A.4	310 Victoria St., Lachine, Que	L. 1766
MacKAY, Elizabeth Y.	B.A.2	1765 Graham Blvd.,Town of Mount Royal	AT 9030
MacKAY, Mary E.	B.A.2	418 Claremont Ave., Westmount	DE 3828

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

McKEE, Irvine	Theol.1	3485 McTavish St., Montreal Stoneham, Que.	PL 1649
McKEE, Margery Ann	B.Sc.1	3258 Westmount Blvd., Westmount	FI 1795
McKEE, Robert J.	B.Com.2	22 DeCasson Rd., Westmount	WI 0690
McKELLAR, Arthur D.	B.Eng.3	3851 University St., Montreal 262 Balmoral St., Winnipeg, Man.	BE 2885
MACKEN, Bredan H.	B.Eng.1	59 Arlington Ave., Westmount	WE 3023
McKENNA, J. Bruce	B.Sc.4	4882 King Edward Ave., Montreal	EL 7020
McKENNA, Mary Joyce	B.A.1	4882 King Edward Ave., Montreal	EL 7020
McKENNA, T. J.	B.C.L.	4498 Cote des Neiges Rd., Montreal	WE 2505
MacKENZIE, Allan G.	Theol.1	2303 Joliette St., Montreal. Bouchette, Que.	
MACKENZIE, C. R. S.	B.Sc.1	4163 Western Ave., Westmount Dalney,Maxwell Coast,Christ Church, Barbados, B. W. I.	WI 2578
McKENZIE, George J.	Med.1	477 Prince Arthur St., Montreal 3193 Turner St., Vancouver, B.C.	LA 3691
MacKENZIE, James S.	B.Sc.3	3605 Northcliffe Ave., Montreal	EL 2926
MACKENZIE, John P. S.	B.Com.2	3269 Cedar Ave., Westmount	WE 1876
McKENZIE, Kenneth B.	B.Sc.1	3682 Westmount Blvd., Westmount	FI 5069
McKEOWN, Marguerite	B.A.3	481 Mountain Ave., Westmount	FI 2945
McKEOWN, Mark A.	B.C.L.2	1535 Bernard Ave. W., Montreal	CA 6123
McKEOWN, Robert	B.Sc.1	5308 Verdun Ave., Verdun	YO 3543
McKEOWN, William	Med.4	3421 Durocher St.,Apt.16,Montreal. 698 Eleventh Ave.,New Westminster,B.C.	
MACKEY, Arthur G.	B.Sc.Agr.2	Macdonald College, Que. 430 MacLaren St., Ottawa, Ont.	Ste A. 407, 810
MACKEY, Gordon A.	B.Eng.2	44 Burton Ave., Westmount	WA 5268
McKIM, Anson	Med.2	1555 MacGregor St., Montreal 2020 Vine St., Vancouver, B.C.	FI 2777
MacKIMMIE, G. Bruce	B.Eng.4	620 Murray Hill, Westmount	WE 3009
McKINNEY, G. H.	Dent.4	4414 Kensington Ave., Montreal.	
MacKINNON,Constance F.	B.H.S.1	Macdonald College, Que. 303 Douglas Ave.,Saint John, N.B.	Ste A. 806, 830
MacKINNON, E. E.	Grad.Nurses	2034 University St., Montreal 17 Upper Hillsboro St.,Charlottetown,P.E.I.	MA 0026
MacKINNON, Roland W.	B.A.3	3648 Park Ave.,Apt.4, Montreal	HA 2859
McKINNON, William J.	B.Eng.3	5134 Azilda St., Montreal	CL 1456
MacKINTOSH, Allan J.F.	B.Com.2	3581 Durocher St., Montreal. 410 Besserer St., Ottawa, Ont.	
MacLACHLAN, Donald S.	B.Sc.Agr.2	Macdonald College, Que. Kenmore, Ont.	Ste A. 407, 810
MacLAINE, Allan Hugh	B.A.2	4132 Melrose Ave., Montreal	DE 7966
MACLAREN, Elizabeth W.	B.A.1	5064 Notre Dame de Grace Ave., N.D.G.	EL 9844
McLAREN, John A.	Med.4	3433 Peel St., Montreal 5950 Blenheim St., Vancouver, B.C.	HA 2412
MacLAREN, John H.	B.Sc.Agr.2	Macdonald College, Que.	Ste A. 810 407
MacLATCHY, Frances C.	Grad.Sch.	3806 Addington Ave., Montreal	EL 2075
McLAUGHLAN, John A.	B.Sc.1	4195 Sherbrooke St.W.,Montreal Grand Falls, N.B.	WI 8373
MACLEAN, Alan C.	Arts P.	Douglas Hall, Montreal Villa Adelina,Prov.Buenos Aires,Argentina.	BE 2885
McLEAN, John A.	B.Sc.Agr.3	Macdonald College,Que. R.R.1, Eureka, N.S.	Ste A.407, 810
MacLEAN, John M.	B.Sc.Agr.1	Macdonald College, Que. Ste. Anne de Bellevue, P.Q.	Ste A.407, 810
MacLEAN, Mary M.	B.A.1	80 Hillcrest Ave., Montreal West	DE 7531
MacLEAN, Mona G.	Grad.Sch. Arts P.	6250 Third Ave.,Rosemount,Montreal. Moss House Teynham, Kent, Eng.	
McLEAN, N. E.	B.A.2	161 Percival Ave., Montreal West	DE 8017
MacLELLAN, Donald O.	B.Sc.2	3433 Oxford Ave., Montreal	EL 6637
MacLELLAN, Robert	B.Eng.3	1198 Mountain St., Montreal 71Military Rd., St. John's Newfoundland.	PL 4326
MacLEOD, Donald M.	Grad.Sch.	Macdonald College,Que. New Aberdeen, C.B,N.S. House No. 332	Ste A. 407, 810

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

MacLEOD, James G.	B.Eng.3	6178 Durocher Ave., Montreal	DO 1964
MacLEOD, John C. F.	B.Eng.2	3774 Wilson Ave., Montreal	DE 2089
McLEOD, Lloyd A.	Grad.Sch	2063 Stanley St., Montreal	MA 9038
		111-14th St.,N.W. Calgary, Alta.	
MacLEOD, John W.	B.Sc.2	1441 Drummond St., Montreal	MA 4171
		87 Brown Ave., Quebec.	
MacLEOD, Stanley	Music P.	3774 Wilson Ave., Montreal	DE 2089
McLEOD, William S.	Grad Sch	5 Maple Ave.,Ste Anne de Bellevue,Que.	StA.765
		111-14th St., N.W., Calgary,Alta.	
McLIMONT, David W.	B.Sc.1	Apt.27,1469 Drummond St., Montreal	PL 7565
MACLURE, James H.C.	B.Eng.3	602 Victoria Ave., Westmount	EL 3803
MACLURE, Nancy M.	B.A.1	602 Victoria Ave., Westmount	EL 3803
McMAHON, Matthew L.	B.Sc.Agr.2	Macdonald College, Que.	Ste A. 407, 810
		Box 45, Hurdman's Bridge, Ont.	
McMARTIN, John W.	Med.4	4727 Western Ave., Westmount,Que.	DE 6722
McMILLAN, Gardner C.	Med.2	25-41st Ave., Lachine, Que.	Zone 8-557
MacMILLAN, J. Eldred	B.A.2	3485 McTavish St., Montreal	PL 1649
		Finch, Ont.	
MacMILLAN, Marian C.	Arts P.	3425 Redpath St., Montreal	MA 2968
MacMILLAN, Robert G.	Theol.1	5585 Verdun Ave., Montreal.	
McMURRAY, Helen L.	B.Sc.3	444 Prince Albert Ave., Montreal	DE 5217
MacMURRAY,Margaret E.	Arts P.	3635 Lorne Crescent, Montreal	MA 2631
		Strathmore, Alta.	
McNAB, Jean M.	B.A.3	4911 Grosvenor Ave., Montreal	AT 5944
McNABB, Claire E.	B.Com.2	Royal Victoria College, Montreal	MA 9176
		24 Monkland Ave., Ottawa, Ont.	
McNABB, Maurice	Theol.1	3485 McTavish St., Montreal	PL 1649
		Prince Albert, Sask.	
McNAIR, Francis E.	Med.4	3443 Durocher St., Montreal	HA 5078
		1107 W. 33rd Ave., Vancouver, B.C.	
McNAMARA, Harry C.	Dent.1	3434 McTavish St., Montreal	PL 6773
		Church St. Valatie, N.Y.	
McNEIL-SMITH,Elaine H.	B.A.3	Royal Victoria College, Montreal	MA 9176
		18 Ripon Rd.,Cross Rds.,Jamaica, B.W.I.	
McNEISH, Hilda J.	B.A.4	1875 Prefontaine St., Montreal	FR 5447
McNIVEN, Jean W.	B.A.4	Royal Victoria College, Montreal	MA 9176
		2 Mance St., Shawinigan Falls, Que.	
McOUAT, Barbara Jean	B.Sc.Agr.1	Macdonald College, Que.	Ste A. 806, 830
McPHAIL, Margery A.	B.H.S.1	Macdonald College, Que.	Ste A. 806, 830
		Perth, N.B.	
McPHERSON, Douglas F.	Med.2	3421 Durocher St.,Apt.56, Montreal.	
		Killam, Alta.	
MacPHERSON, Ronald H.	Med.3	3483 Peel St., Montreal	LA 0643
		325 Mountain Rd., Moncton, N.B.	
McQUAIG, Keith D.	Med.4	1920 St. Luke St., Montreal	FI 3283
		Finch, Ont.	
MacQUEEN, Angus M.	Dent.2	545 Pine Ave., Montreal	MA 1545
		411 Riverside Ave., Ogdensburg, N.Y.	
MacQUEEN, Marjorie W.	B.A.1	251 College St., St. Laurent	BY 1132
McQUILLAN, Marie B.	Grad.Sch	1025 Blvd. Mt. Royal West, Montreal.	
		Marymount College Tarrytown on Hudson,N.Y.	
MacRAE, Harold W.	B.Sc.1	25 Burton Ave., Westmount	EL 3721
MacRAE, Isabella C.	B.H.S.3	Macdonald College, Que.	Ste A. 806, 830
		Williamstown, Ont.	
MACRAE, John A.	B.Sc.2	No.65 Kinderslay Ave.,Mount Royal	EK 1029
McRAE, Murray E.	B.Sc.2	3525 Cote St. Michel Rd., Montreal	DU 5731
McTEER, Charles P.	B.Sc.Agr.1	Macdonald College, Que.	Ste A. 407, 810
		7 Third Ave., Ottawa, Ont.	
McTEIGUE, Gerald J.	B.Eng.1	4326 Sherbrooke St.W., Montreal	WI 0277
MABON, Margaret E.	B.A.2	162 Wolseley Ave., Montreal West	DE 7726
MACARIO, Joyce N.	B.A.2	683 Grosvenor Ave., Westmount	EL 1260
MAGEE, Arch	Grad.Sch		
		Grande Ligne, Que.	St.Johns 3313
MAGID, Nora L.	B.A.1	3405 Oxford Ave., Montreal	DE 3285

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

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MAGID, Rose	B.A.2	4837 Hutchison St. Apt.4, Montreal	CR 6472
MAHABIR, Rodney J.	B.A.2	2047 Union Ave., Montreal	LA 3380
		2 Herbert St. Port-of-Spain, Trinidad, B.W.I.	
MAHABIR, Winston J.	B.A.3	2047 Union Ave., Montreal	LA 3380
		2 Herbert St., Port-of-Spain, Trinidad, B.W.I.	
MAHON, Edward G.	B.Eng.3	475 Strathcona Ave., Westmount	WE 6370
MAHON, John D.	Med.3	3615 Durocher St., Montreal	PL 6905
		Taber, Alta.	
MAHONEY, Richard A.	Dent.2	3851 University St., Montreal	BE 2885
		23 Glen St., Holyoke, Mass.	
MAILLET, Robert	B.C.L.3	5590 Dunmore St., Montreal	AT 1937
MAINGUY, Philip S.	B.Eng.3	309 Strathearn Ave., Montreal	DE 9325
MAINGUY, Robert E.	B.Eng.4	309 Strathearn Ave., Montreal West	DE 9325
MAIR, Dennis E.	B.Com.1	3445 Peel St., Montreal	HA 9462
		Kingston, Jamaica, B.W.I.	
MAIR, Terence N.	B.Sc.3	456 Pine Ave. W., Montreal	PL 5776
		4 Devon Rd., Half-Way Tree, Jamaica.	
MALDOFF, Bertha	B.Sc.1	923 Hartland Ave., Outremont	AT 3348
MALLET, Gaston F.	B.Arch.1	3437 Peel St., Montreal	PL 1674
		1290 Bernard W.Apt.18, Outremont	CR 6232
MALONE, William C.	B.A.3	Douglas Hall, Montreal	BE 2885
		268 Aberdeen Ave., Hamilton, Ont.	
MALTAIS, Auguste	B.Com.4	Queen's Hotel, Montreal	MA 5701
		4323 Messier St., Montreal.	
MAMELAK, Joseph S.	B.Sc.2	81 Rachel St. West, Montreal.	
MANDATO, Anita P.	Arts P.	1180 Mackey, Apt.14, Montreal	WI 6542
MANETTA, Marcelle	Music P. Ex.	435 Sherbrooke St.W., Apt.4, Montreal	LA 2892
MANKOFSKY, Bernard	B.Eng.2	4361 St. Urbain St., Montreal	HA 9509
MANN, Alan MacD.	B.A.2	1502 Mackay St., Montreal	FI 6267
MANN, Ian D.	B.Eng.2	3434 McTavish St., Montreal	PL 6773
		2211 - 11th St.W., Calgary, Alta.	
MANN, Stanley L.W.	B.Eng.2	3585 Durocher St., Montreal	HA 4779
		2211-11th St.W., Calgary, Alta.	
MANNING, Charles G.	Med.4	545 Pine Ave.W., Montreal	MA 1545
		Hodden, Culloden Rd., St.Michael, Barbados, B.W.I.	
MANOLSON, Lewis J.	B.Com.3	4260 Dorchester St. W., Montreal	WE 4413
MAPP, Lionel McH.	B.Sc.3	3477A Hutchison St., Montreal	HA 4861
		8 Meyler St., Belmont, P.O.S. Trinidad.	
MARCHANT, Edith G.	Med.3	Hotel Auberge des Brises, Beloeil.	
MARCOVITZ, Henry M.	Med.1	724 McEachran Ave., Montreal	CA 5521
MARCUS, George	B.Eng.1	4263 Delorimier Ave., Montreal	CH 0176
MARCUS, Rudolph A.	B.Sc.3	5957 Waverley Avenue, Montreal	CR 3069
MARCUSE, Ruth E.	B.A.2	359½ De L'Epee Ave., Outremont	CR 0212
MARGETTS, Edward L.	Med.2	Apt.4, 3562 Shuter St., Montreal	PL 0880
		Trail, B.C.	
MARGETTS, Philip G.	Med.2	3429 Peel St., Montreal	PL 7385
		Trail, B.C.	
MARGISON, Arthur D.	B.Eng.2	3581 Lorne Ave., Apt.7, Montreal	LA 9772
MARIEN, Norman B.	B.A.2	649 Rockland Ave., Outremont	CA 5547
MARKOWSKI, Edwin	B.Sc.4	3575 Durocher St., Montreal	HA 4771
MARKS, David M.	B.Com.2	655 Lansdowne Ave., Montreal	FI 0749
MARKSFIELD, Harry	B.Eng.3	159-7th Ave., Lachine, Que.	Lach. 1380
MARKSFIELD, William C.	Med.3	159-7th Ave., Lachine, Que.	Lach. 1380
MARMUR, Ben	B.Eng.2	4283 St. Urbain St., Montreal	PL 3309
MARMUR, Julius	B.Sc.Agr.1	Macdonald College, Que.	Ste. A.407,810
		4283 St. Urbain St., Montreal	PL 3309
MARMUR, Rose	Teach.Elem.	4283 St. Urbain St., Montreal	PL 3309
MARPLES, Vaughan W.	B.Com.3	5157 Westbury Ave., Montreal	EX 2088
MARSDEN, Edgar G.	B.Eng.4	3525 University St., Montreal	MA 4352
		Maracas, Trinidad, B.W.I.	
MARSHALL, Dorene	Music	3617 Marlowe Ave., Montreal	DE 5365
MARSHALL, Shirley	B.A.4	637 Dollard Blvd., Outremont	CA 6985
MARSHALL, Gardner R.	B.Eng.1	4542 Hampton Ave., N.D.G., Montreal	WA 5368
MARSHALL, John	Theol.1	3485 McTavish St., Montreal	PL 1649
		Middlesbrough, Eng.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
MARSHALL, Paul M.	B.Eng.1	433 Metcalfe Ave., Montreal	FI 2181
MARTEL, Paul E.	B.Eng.4	144 Radisson St., Three Rivers, Que.	
MARTIN, Anna K.	B.Sc.1	21 Curzon St., Montreal West	EL 0743
MARTIN, Daphne M.	B.A.2	7 Richelieu Place, Montreal	HA 7710
		6 Park Lane, Wembley, Middlessex, Eng.	
MARTIN, Elva J.	B.A.1	Royal Victoria College, Montreal	MA 9176
		97 Frank St., Ottawa, Ont.	
MARTIN, Grace Gladys.	Grad.Nurses	3660 Lorne Crescent,Apt.19,Montreal	PL 2339
		Jeffery Hale's Hospital, Quebec City.	
MARTIN, June	Grad.Nurses	3555 University St., Montreal	HA 5664
		29 Lawrence Ave., Cornwall, Ont.	
MARTIN, John R.	Med.1	3577 Peel St., Montreal	LA 2736
MARTIN, Marion G.	B.H.S.1	Macdonald College, Que	Ste A. 806, 830
		303 Cedar St., Sudbury, Ont.	
MARTIN, Sara	B.A.3	4648 Esplanade Ave., Montreal	HA 4096
MARTINEZ, Pamela M.	B.A.3	Royal Victoria College, Montreal	MA 9176
		3 Hopefield Ave.,Halfway Tree,Jamaica,B.W.I.	
MASON, Herbert P. Jr.	Dent.1	3545 Park Avenue, Montreal	PL 3698
		62 Beekman St., Plattsburg, N.Y.	
MASON, William E.H.	B.Sc.1	4100 Cote des Neiges,Apt.6, Montreal	FI 1214
MASSE, Yvan Joseph.	B.Com.4	3867 Harvard Ave., Montreal	DE 8205
MASSEY, Irving Joseph.	B.A.3	4479B Esplanade Ave.Apt.6, Montreal	PL 2002
MASTERS, John Henry.	Med.1	477 Prince Arthur St., Montreal	LA 3691
		107 Lincoln St.,Worcester,Mass. U.S.A.	
MATCHETT, James H.	Med.1	1441 Drummond St., Montreal	MA 4171
		1733 39th Ave., Seattle, Wash. U.S.A.	
MATHER, Edith H.	B.A.1	5583 Queen Mary Road, Montreal	EL 2646
MATHER, Virginia	Music	5583 Queen Mary Road, Montreal	EL 2646
MATHESON, Howard W.	B.Eng.3	139 Ballantyne Ave.N.,Montreal West	DE 7649
MATHESON, Murdoch M.	Med.1	3602 Durocher St., Montreal	MA 4939
		St. Anns, Victoria Co., C.B.N.S.	
MATTHEWS, Donald S.	B.Sc.1	2068 Vendome Ave., Montreal	WA 1954
MATTHEWS, Mary G.	Grad.School Arts P.	57 Clandeboye Ave., Westmount	WI 9498
MATTHEWS, C. Robert.	B.Eng.4	3580 Durocher St., Montreal	PL 7519
		Danville, Que.	
MATTHEWSON, Evelyn J.	Grad.Nurses	Apt.42, 1461 Mountain St., Montreal	MA 5108
		High River, Alta.	
MAUCHAN, Hazel	B.A.4	1628 St. Luke St., Montreal	WI 3547
MAUNSELL, Donald B.	Med.3	2066 Mansfield St.,Montreal	LA 7767
		P.O. Box 119, Cardinal, Ont.	
MAW, Elizabeth Jean.	B.H.S.1	Macdonald College, Que	Ste A. 806, 830
		Macdonald College, Que.	
MAWHINNEY, Joan M.	B.H.S.2	Macdonald College, Que	Ste A. 806, 830
		4627 Kensington Ave., Montreal.	
MAXFIELD, John Leslie.	B.Eng.4	3451 Hutchison St., Montreal.	
		Boissevain, Man.	
MAY, Margaret E.M.	Phys.Ed.P.	50 Academy Rd.,Apt.4, Westmount	WI 1645
MAYER, Theodore	Grad.School	580 Cote St. Antoine Rd., Westmount	EL 9079
MAYMAN, Abe	B.Sc.3	4590 Hutchison St., Montreal	CR 7394
MAZER, Dorothy	B.Sc.1	774 Wiseman Ave., Outremont	CA 9995
MEAD, Bruce R.	Grad.School	2063 Stanley St., Montreal	MA 9038
		1549 Maple St., Vancouver, B.C.	
MEEK, Robert George.	B.Eng.2	110 Dufferin Rd., Hampstead	EL 6893
MEIGHEN, Jeanne E.M.	B.A.1	4505 Old Orchard Ave., Montreal	WA 5470
MELAMED, Samuel	B.Sc.4	4269 St. Lawrence Blvd., Montreal	HA 5816
MELAMED, Simon	B.Eng.1	4271 St. Laurent Blvd., Montreal	HA 3805
MELANSON, Richard E.	Agr.4	Macdonald College, Que	Ste A. 407, 810
		417 Lutz St., Moncton, N.B.	
MELLOR, Albert J.	B.Eng.1	3815 LaFontaine St., Montreal	FA 1719
MENDEL, Arthur H.	B.Eng.3	913 Rockland Ave., Outremont	CA 7712
MENDEL, Berl David.	B.Sc.2	423 St. Joseph Blvd. W., Montreal	DO 6555
MENDELL, Berl Leon.	Agr.2	Macdonald College, Que	Ste A. 407, 810
		5775 Durocher St., Montreal.	
MENDELL, Jon Joseph.	Agr.P.	Macdonald College, Que	Ste A. 407, 810
		5775 Durocher St., Montreal.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

MENDELSON, Myer D.	B.Sc.3	403 St.Joseph Blvd.W.Apt.21,Outremont	DO 7041
MENDES, John Harold	B.Sc.1	3485 McTavish St., Montreal	PL 1649
		4B Ivy Road, Cross Roads, P.O. Jamaica, B.W.I.	
MENZIES, Robert G.	Grad.School	Macdonald College, Que	Ste A. 739
		Provost, Alberta.	
MERCER, Charles Ronald.	B.A.4	481 Prince Arthur St. W., Montreal.	
		Plymouth, Montserrat, B. W. I.	
MERCER, Ross Malcolm.	B.A.4	341c Selby St., Westmount	FI 9494
MERCER, Sheila M. B.	B.A.1	48 Aberdeen Ave., Westmount	WE 1593
MERGLER, Daniel N.	B.Sc.1	4587 Harvard Ave., Montreal	WA 8049
MERRITT,Catherine M.	Arts P	570 Milton St.,Apt.4, Montreal	MA 8455
		532 Pine St., Lockport, N.Y. U.S.A.	
MERRY, Donna B.	B.A.2	11 DeCasson Rd., Westmount	WI 8938
METCALFE, Herbert G.	B.S.2	72 Courcellette Ave., Outremont	CR 4909
		17 Main St., Aylmer, E., Que.	
MEULEMAN, William L.	Med.2	1618 Lincoln Ave.,Apt.3, Montreal.	
		219 Stephenson Ave., Menominee, Mich. U.S.A.	
MEWHART, Edith	Grad.Nurses	772 Sherbrooke St.W., Montreal	HA 6268
		507 Dufferin Ave., Saskatoon, Sask.	
MEYER, John A.	Arts P	929 Cathedral St., Montreal	LA 9652
		70 Douglas Ave., Toronto, Ont.	
MEYER, Paul H. J.	B.A.3	Douglas Hall, Montreal	BE 2885
		Penbeck House, Highfield Road, Bushey,	
		Herts. England.	
MICHAUD, Jean C. E.	B.Arch.3	1328 St. Viateur St.W., Montreal	DO 5050
MILLAR, Dora	B.A.4	5761 Cote St. Luc Rd., Montreal	EL 4803
MILLAR, Fiona	Agr.1	Macdonald College, Que	Ste A. 806 & 830
		5761 Cote St. Luc Rd., Montreal	EL 4803
MILLAR, Mary D.	B.Sc.3	5761 Cote St. Luc Rd., Hampstead	EL 4803
MILLAR, Myra Jean	B.H.S.1	Macdonald College, Que	Ste A. 806, 830
		Box 218, Drummondville, Que.	
MILLEN, Margaret F.	Theol.1	4279 Hampton Ave., Montreal	EL 5923
MILLER, Alexander	B.Sc.3	2041 DeMaricourt Ave., Montreal	WI 7640
MILLER, Anna L.	Med.2	3560 University St., Montreal	LA 8318
		Carleton, Yarmouth Co., N.S.	
MILLER, Douglas	B.Eng.1	617 Rockland Ave., Outremont	CA 7012
MILLER, Estelle F.	Arts P	4530 Decarie Blvd., Montreal	EL 3990
MILLER, Isobel R.	B.A.1	4238 Beaconsfield Ave., Montreal	DE 5201
MILLER, Justin O.	B.Eng.4	3480 Durocher St. W., Montreal	PL 0787
MILLER, Mary Margaret.	B.A.4	Royal Victoria College, Montreal	MA 9176
		105 W Mount Ida Ave., Alexandria, Virginia.	
MILLER, Morris	B.Sc.3	5611 Beaminster Place, Montreal.	
		51 Main St., Box 201, Rouyn, Que.	
MILLER, Morris	B.Com.2	757 Davaar Ave., Outremont	DO 7406
MILLER, Sheba	Teachers Inter.	673 de L'Epee Ave., Outremont	DO 2715
MILLER, Thomas A.	B.Eng.3	3426 McTavish St., Montreal	LA 9894
		244 Kitson St., Winnipeg.	
MILLER, Zavie	B.Eng.4	673 De L'Epee Ave., Outremont	DO 2715
MILLETTE, Gerard	Agr.2	Macdonald College, Que	Ste A. 407, 810
		6314 Chateaubriand St., Montreal.	
MILLHOLLAND, William.	B.Eng.1	Douglas Hall, Montreal	BE 2885
		325 Vidal St., Sarnia, Ont.	
MILLIGAN, David C.	Agr.3	Macdonald College, Que	Ste A. 407, 810
		R.R.3, Truro, N.S.	
MILLMAN, Thomas R.	Grad.School		
		Dunham, P.Q.	
MILLS, Charles G.	B.Eng.1	2288 Regent Ave., Montreal	DE 3821
		727 St. Genevieve St.,Three Rivers,Que.	
MILLS, Jack W. C.	B.Eng.1	7193A St.Denis St., Montreal	CA 8483
MILLS, Margaret F.	B.H.S.3	Macdonald College, Que	Ste A. 806, 830
		Eganville, Ont.	
MILNE, George H.	B.Sc.1	Douglas Hall, Montreal	BE 2885
		120 Almont Ave., New Glasgow, N.S.	
MILNE, Ian G.	B.Sc.2	5630 Queen Mary Road, Montreal	WA 6125
MILNE, Katharine	B.Arch.2	Royal Victoria College, Montreal	MA 9176
		62 Powell Ave., Ottawa, Ont.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

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MILNER-WHITE, Ursula	B.A.1	3467 Peel St., Montreal Shepleghcourt, Blackawton, Devon, England.	PL 7674
MIHOT, Raymond	B.Eng.2	6539 Ste Famille St., Montreal St. Paulin, Que.	LA 5951
MINDES, Evelyn	B.A.1	4827 Park Avenue, Montreal	CA 0062
MINER, Elaine	B.A.3	851 Hartland Ave., Montreal	AT 0762
MINER, Richard L.	Dent.4	Douglas Hall, Montreal 518 Walnut St., Newtonville, Mass. U.S.A.	BE 2885
MINTUN, Herbert D.	Med.3	545 Pine Ave., W., Montreal 106 N. School St. Lodi, Calif.	MA 1545
MINTZBERG, Jack	B.Sc.3	46 Courcelette St., Outremont	DO 1454
MITCHELL, Harry	Music P.	6174 Hutchison St., Montreal	CA 7573
MITCHELL, Herbert E.	B.Sc.1	2071 Grey Ave., Montreal	WA 2365
MITCHELL, Jean C.	B.A.4	Royal Victoria College, Montreal 2701 Alvarez Thomas, Alberdi, Rosario, Argentina.	MA 9176
MITCHELL, Kina M.	B.A.2	Royal Victoria College, Montreal c/o L.R.Hanower, 58 W.40th St., New York, N.Y.	MA 9176
MITCHELL, Laura	Music P.	81 Chesterfield Ave., Westmount	DE 6505
MITCHELL, Leonard	Grad.Sch	2063 Stanley St., Montreal 3142 East 20th Ave., Vancouver, B.C.	MA 9038
MITCHELL, Nancy R.	B.A.1	2243 Oxford Avenue, Montreal Bainsville, Ont.	EL 5854
MITCHELL, Robert A.	B.Com.4	4103 Sherbrooke St., Westmount	FI 2617
MITCHELL, Sallie	B.Sc.1	Royal Victoria College, Montreal 1321 Sherbrooke St.W., Montreal.	MA 9176
MITHAM, Walter H.	B.Sc.1	508 Lansdowne Ave., Westmount	DE 4042
MOFFATT, Robert T.	B.Sc.1	5020 Delorimier Ave., Montreal Cumberland, Ont.	TA 2281
MOHAMMED, Nizamud D.	B.Sc.1	2047 Union Ave., Montreal 17 Scott-Bushe St. Port-of-Spain, Trinidad, B.W.I.	LA 3380
MOMOSE, Kiyokazu Jack	B.Sc.3	3547 University St., Montreal Chase, B.C.	LA 0789
MONARQUE, Guy	B.Eng.1	4380 Delorimier St., Montreal	AM 4170
MONCEL, Andre	B.Eng.1	115 Aberdeen Ave., Westmount	WE 2067
MONGEAU, Ernest A.	Dent.3	25 De Vimy St., Outremont	AT 2562
MONGEAU, Paul	B.Sc.1	5204 Delorimier St., Montreal	AM 6391
MONTEMURRO, Sandy M.	B.Sc.1	2027 Stanley St., Montreal 27 McQuaig St. Rouyn, Que.	LA 1503
MONTGOMERY, Edward W.	B.Eng.4	3653 University St., Montreal 100 Nassau St., Winnipeg, Man.	PL 2073
MONTGOMERY, Marian M.	Teachers (Elem)	136 Eleventh Ave., Lachine, Que	HA 6268
MONTGRAIN, Clement L.	Grad.School	5208 7th Ave., Rosemount	AM 3844
MONTPETIT, Leon O.	B.Eng.1	8425a St. Denis St., Montreal	DU 4603
MOOK SANG, Winston	Dent.2	Apt.4, 439 Sherbrooke St.W., Montreal. 24 Strand, New Amsterdam, Br. Guiana.	
MOONEY, Elizabeth	Grad.School	3435 Mountain St., Montreal 129 W Springfield Rd., Springfield, Pa.	MA 6933
MOORE, A. George	Theol.2	2070 Union Ave., Apt.11, Montreal. Safe Harbour, Newfoundland.	
MOORE, Harold L.	B.Sc.1	42 Sunnyside Ave., Westmount Derby Line, Vt.	WE 1214
MOORE, Marjorie J.	B.Sc.1	34 Nelson St., Montreal West	DE 7415
MOORE, Myrle I.	B.A.1	657 Victoria Ave., Westmount	WA 2655
MOORE, Stephen R.	B.Eng.1	644 Davaar Ave., Montreal	CA 6551
MORANTZ, Daniel J.	B.Sc.2	5264 Clark St., Montreal	CR 7870
MORGENSTERN, George	B.Eng.2	2117 Maplewood Ave., Montreal	AT 0361, PL 2065
MORLEY, Kathleen O.	B.H.S.1	Macdonald College, Que. 494 9th St. E., Owen Sound, Ont.	Ste A. 806, 830
MORRIS, Desmond H.	B.Sc.2	3605 University St., Montreal Acton, Georges Plain, Jamaica, B.W.I.	MA 3101
MORRIS, Kenneth W.	Agr.2	Macdonald College, Que. Lakefield, Ont.	Ste A. 407, 810
MORRIS, Michael D.	Dent.1	762 Sherbrooke St.W., Montreal 59 Champlain St., Plattsburg, N.Y.	MA 0298
MORRIS, Norma Helen	B.Sc.1	5430 Clanranald Ave., Montreal	DE 9368

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MORRIS, Raymond A.	B.Sc.1	2027 Stanley St., Montreal.	
		51 Kitchener St., LaTuque, Que.	
MORRIS, Robert J. D.	Arts P	3519 Lorne Ave., Montreal	HA 1763
	Theol.1	919 Victoria St., Nelson, B.C.	
MORRIS, Ruth K.	B.H.S.3	Macdonald College, Que.	Ste A. 806, 830
		574 Stanstead Ave.,Town of Mt.Royal.	
MORRIS, William E.	Med.1	3647 University St., Montreal	MA 2806
		Ste. Therese, Que.	
MORRISON, Ada C.	B.Sc.2	4121 St. James St. Apt.5, Montreal.	
		26½ Arnold Rd. Kingston, Jamaica, B.W.I.	
MORRISON, Clover K.	B.A.3	3850 Harvard Ave., Montreal	EL 3977
MORRISON, Mary	Teacher'S(Elem)	380 Fifth Ave., Lachine, Que.	HA 6268
MORRISON, Earl S.	Grad.School	Macdonald College, Que.	Ste A. 407, 810
		Campbellton, N.B.	
MORRISON, Grant	B.Eng.3	324 Gouin Blvd.East, Montreal	DU 3627
MORRISON, Herbert S.	Med.1	Douglas Hall, Montreal	BE 2885
		89 Englewood Ave., Brookline, Mass. U.S.A.	
MORRISON, James A.	Grad.School	2063 Stanley St., Montreal	MA 9038
		489 Seventh St., Medicine Hat, Alberta.	
MORRISON, Olive May.	B.Sc.1	3585 Ste Famille St., Montreal	MA 5514
		28 Market St., Montego Bay,Jamaica,B.W.I.	
MORROW, Brian J.	B.Sc.1	25 Nelson Ave., Montreal West.	EL 6768
MORTON, Allan C.	Med.3	417 Mount Royal West, Montreal	DO 8805
		c/o M.Movshovitz,Carlton Place,Ont.P.O.Box 718.	
MORTON, Maurice	Grad.School	2045 Aylmer St., Montreal	LA 7067
MOSAHEB, Ibbit	Dent.1	539 Prince Arthur St. W. Montreal	BE 0386
		Penal, Trinidad, B. W. I.	
MOSCOVITCH, Moses	B.A.3	5268 Hutchison St., Outremont	CR 1713
MOSHER, Russell D.	Teacher'S(Inter)	3574 University St., Montreal	PL 1156
		Noyan, Que.	
MOSS, Anthony F.	B.A.2	3851 University St., Montreal	BE 2885
		R.F.D.No.4, Waterbury, Conn. U.S.A.	
MOSTER, Harvey	B.Eng.3	895 Outremont Ave., Outremont	CA 2886
		2597 W 2nd Ave., Vancouver, B.C.	
MOSTER, Julius B.	Agr.4	Macdonald College, Que.	Ste A. 407, 810
		4375 Grand Boulevard, Montreal.	
MOUNTFORD, Keith W.	B.Sc.4	3480 Durocher St., Montreal	PL 0787
		White River, Ont.	
MOWAT, John B.	B.A.2	646 Carleton Ave., Westmount	WE 5542
MOXLEY, John E.	Agr.2	Macdonald College, Que.	Ste A. 407, 810
		Hurdman's Bridge, Ont.	
MOYER, Jason K. Jr.	Med.1	3561 Lorne Ave., Montreal	MA 9541
		10 Kirkwood Ave., Binghamton, N.Y.	
MROZ, Boris	B.Eng.3	381 Edward Charles St.,Apt.8,Montreal.	DO 2176
MUDJAR, John W.	B.Sc.1	3456 University St., Montreal	LA 4702
		115 8th St., Noranda, Que.	
MUIR, Joyce	B.A.3	62 Aberdeen Ave., Westmount	WI 7826
MUIR, William K.	B.Eng.1	73 Stratford Road, Hampstead	EL 8703
MULCAHY, Beulah E.	Teacher'S(Elem)	4568 St.Catherine St.E., Montreal	CL 7445
MULCAIR, John G.	Med.1	3815 Marlowe Ave.,N.D.G.,Montreal	DE 7692
MULLER,Frederick J.	Dent.2	3581 University St., Montreal	MA 3842
		47 Western Ave., Ravena, N.Y.	
MULLIGAN, William O.	Grad.School	351 Melville Avenue, Westmount	WE 5233
MUMFORD, Robert S.	Med.3	Children's Memorial Hospital,Montreal.	FI 4661
		123 N.Orange Drive, Los Angeles, U.S.A.	
MUNROE, William M.	B.A.4	690 Sherbrooke St.W., Montreal	LA 2244
		5078 St.Catherine St.E., Montreal.	
MUNRO, Darrell D.	Med.2	3525 University St., Montreal	MA 4352
		241 Saunders St., Fredericton, N.B.	
MURAD, Leslie E.	B.A.2	3615 University St., Montreal	PL 5585
		16b Mountainview Ave., Kingston,Jamaica,B.W.I.	
MURPHY, Maurice	B.Eng.1	10095 Delorimier St., Montreal	DU 1822
MURPHY, Myron A.	B.Eng.2	10095 Delorimier St., Montreal	DU 1822
MURRAY, Charles S.	B.Com.1	5119 Western Ave., Montreal	EL 8073
		233 Clemow Avenue, Ottawa, Ont.	

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MURRAY, Dorothy M.	Lib. School	Royal Victoria School, Montreal Jamaica College, Kingston, Jamaica.	MA 9176
MURRAY, Haakon O. L.	B.Sc.3	3445 Peel St., Montreal Bungalow 21, T.L.L. Forest Reserve, Trinidad, B.W.I.	HA 9462
MURRAY, James Gordon	B.Sc.1	4693 Coolbrooke Ave., Montreal	DE 1887
MURRAY, Robert G.E.	Med.3	3590 University Street, Montreal	HA 9693
MUSSELLS, F. Lloyd	Med.2	3851 University Street, Montreal	BE 2885
MUSSER, William L.	Med.3	3541 Lorne Avenue, Montreal. 410 Spring Ave., Clarksburg, W.Va.	
MUSTILLE, Anthony N.	Med.2	2298 Harvard Ave., Montreal	EL 0873
MYERS, George S.	B.Sc.1	218 Percival Ave., Montreal West	DE 9932
MYERS, Harry S.	B.Sc.3	895 Stuart Avenue, Montreal	DO 3009
MYLES, Frank E.	B.Eng.1	4622 Delorimier Avenue, Montreal	AM 6516
NACHFOLGER, Nathan	B.Eng.3	4359 Esplanade Avenue, Montreal	HA 7650
NAEGELE, Kaspar David.	B.A.2	3609 University St., Montreal 654 W. 161st St., New York, N.Y.	LA 6307
NAIMAN, James	B.A.2	3661 Ste Famille St., Montreal	HA 2004
NAIMER, Melvyn	B.Com.3	703 Stuart Avenue, Outremont	CA 5335
NAIMER, Phyllis F.	B.A.1	703 Stuart Avenue, Outremont	CA 5335
NAKEY, Lars G.	B.Sc.1	5055 Glencairn Avenue, Montreal	DE 2985
NAMAN, Marvin J.	Med.2	3617 Lorne Crescent, Montreal 1709 No.Van Ness Ave., Fresno, Calif.	LA 8013
NARIZZANO, Albert	B.A.3	156 Brock Avenue, N.,Montreal West	DE 7860
NAROD, Milton	Grad.School	Macdonald College, Que 105 Cook St., Victoria, B.C.	Ste A. 407, 810
NASON, Roland W.	Agr.3	Macdonald College, P.Q. Fredericton Junction, N.B.	Ste A. 407, 810
NASSAR, Claire	B.Sc.1	582 Notre Dame St., Lachine, Que	Lach. 87
NAVI, Frank	B.Eng.1	2588 Bercy St., Montreal	FR 8286
NEEDHAM, Esward R.	B.Sc.1	430 Claremont Avenue, Westmount. 782 Lafontaine St., Drummondville, Que.	
NEILL, Lois S.	B.Sc.3	74 Stratford Road, Hampstead	EL 6560
NEILSON, Norma A.	B.Sc.4	52 Arlington Avenue, Westmount	WE 2394
NEIMAN, Gregory M. A.	B.Sc.4	460 Elm Avenue, Montreal Corner Brook, Newfoundland.	FI 4232
NELSON, Beth M.	B.H.S.1	Macdonald College, Que 421 Churchill Ave., Ottawa, Ont.	Ste A. 806, 830
NELSON, Joan A.	B.Sc.1	1520 Pine Ave. W., Montreal	FI 9823
NELSON, John A.	Grad.School	Box 213, Macdonald College, Que. 7404 106 St., Edmonton, Alberta.	Ste A. 143
NEMEROFSKY, Norman M.	B.Sc.4	4136 St. Urbain St., Montreal	BE 2287
NESS, James A.	Agr.1	Macdonald College, Que	Ste.A. 407, 810
NESSETH, Merrill E.	B.Sc.3	620 Prince Arthur St.W., Montreal Mattawa, Ont.	LA 9489
NEWCOMBE, Edmund Peter.	B.A.2	Douglas Hall, Montreal 585 Acacia Ave.,Rockcliffe Park, Ottawa.	BE 2885
NEWELL, Barbara E.	B.H.S.4	Macdonald College, Que 323 Wentworth St. S., Hamilton, Ont.	Ste A. 806, 830
NEWELL, James E.	Dent.3	Douglas Hall, Montreal 323 Wentworth St. S., Hamilton, Ont.	BE 2885
NEWMAN, Lenore B.	B.H.S.3	Macdonald College, Que Central Experimental Farm, Ottawa, Ont.	Ste A. 806, 830
NEWTON, Marion E.	B.H.S.2	Macdonald College, Que 2513 5th St.W., Calgary, Alta.	Ste A. 806, 830
NICHOL, John Eldred	B.Eng.1	17 Dobie Ave.,Town of Mt. Royal	AT 4172
NICHOLSON, Ross K.	B.Eng.1	4568 Hampton Avenue, Montreal	EL 8564
NICKERSON, Granville	Med.1	3480 Durocher Street, Montreal Bristol Avenue, Liverpool, N.S.	PL 0787
NICORA, Walter B.	Dent.2	762 Sherbrooke St.W., Montreal 54 Roosevelt Ave.,New York, N.Y.	MA 0298

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NILOFF, Paul H.	Med.3	5602 Park Ave. Apt.5, Montreal	CA 0569
		22 High St., Sherbrooke, Que.	
NIRENBERG, Louis	B.Sc.2	4629 Park Avenue, Montreal	LA 4071
NISSE, Ruth	B.Sc.2	4991 Circle Road, Montreal.	
NIXON, Melbourne E.	B.Eng.1	4110 Marlowe Avenue, Montreal	DE 0843
NIZNICK, Harry	B.Eng.2	4477 Esplanade Avenue, Montreal	PL 3327
		184 Cathedral Ave., Winnipeg, Man.	
NOBLE, Ruth L.	B.Sc.1	4463 Montrose Ave., Westmount	WE 1531
NOLAN, Marion R.S.V.J.	B.A.1	4166 Girouard Ave., Montreal	DE 4634
NOONAN, James D.	Med.4	3483 Peel Street, Montreal	LA 0643
		Valley City, N.Dak., U.S.A.	
NORMANDIN, R.A.	Grad.Nurses	772 Sherbrooke St.W., Montreal	HA 6268
		Y.W.C.A. Moose Jaw, Sask.	
NORTON, Harold A.	B.Eng.4	4165 Marcil Avenue, Montreal	DE 6112
NORTON, M. Judson F.	Med.1	Douglas Hall, Montreal	BE 2885
		174 Nunda Blvd., Rochester, N.Y.	
NOSEWORTHY, D.W.	Theol.1	3473 University St., Montreal	MA 4902
NOTMAN, Ralph R.	Med.1	Douglas Hall, Montreal	BE 2885
		13 Hillcrest Ave.,St.Catherines,Ont.	
NOVACK, Lazare	B.Sc.3	4882 Jeanne Mance St., Montreal	TA 1290
NOWERS, Alan P.	B.Com.1	483 Prince Albert Ave.,Westmount	DE 1577
		Hutchison Ave., Ottawa.	
NOWOSADKO, Raymond F.	Dent.4	477 Prince Arthur St.W., Montreal.	
		118 North Main St., Norwich, Conn.	
NUNES, Doris S.	Med.2	1201 Dorchester St.W., Montreal.	
		14a Retirement Rd.,Cross Roads P.O.	
		St.Andrew, Jamaica, B.W.I.	
OAKES, Margaret I.	B.A.3	4736 Adam Street, Montreal	CL 1070
OBERLANDER, H. Peter.	B.Arch.3	258 Metcalfe Ave., Westmount	FI 7645
O'CONNOR, Gerald A.	Grad.School	5719 Durocher St., Outremont	CR 2362
O'DONNELL, Patricia D.	B.A.4	Royal Victoria College, Montreal	MA 9176
		29 Drummond St., Perth, Ont.	
ODZE, Walter K.	B.Eng.2	29 Churchill Ave., Westmount	WE 5779
OFREMCHUK, John P.	B.Eng.2	1893 Orleans Ave., Montreal	CH 3039
		367 Archibald St., Winnipeg, Man.	
OGILVIE, Alexander A.	B.Eng.4	1210 Pine Ave.W., Montreal.	
		Grand Falls, Newfoundland.	
OGILVIE, John P.	B.Eng.4	Douglas Hall, Montreal	BE 2885
		Towner Park Rd., Sidney, B.C.	
OKE, Morley James	B.A.3	705 Allard Ave., Verdun	YO 1663
OLIVER, Jean C.	B.A.3	Royal Victoria College, Montreal	MA 9176
		Minerva, N.Y.	
OLIVER, Kathleen W.	B.A.4	577 Roslyn Ave., Westmount	EL 6688
OLIVER, Michael K.	B.Sc.1	14 Forden Avenue,Westmount	WE 1741
OLLIVER, Jean M.	B.H.S.3	Macdonald College, Que	Ste A. 806, 830
		4514 W.12th Ave., Vancouver, B.C.	
OLSEN, Harold	B.A.1	21 Bellingham Rd., Outremont	AT 2111
OLSEN, Kaare	B.Eng.2	4620 Draper Ave., N. D. G.	EL 1974
O'NEIL, Robert S.	B.Eng.2	4410 St.Catherine St. Westmount	FI 3805
O'NEILL, Elizabeth F.	Grad.School		
		773 Dorchester Ave., Winnipeg, Man.	
ONEY, Stuart R.	B.Sc.3	3485 McTavish Street, Montreal	PL 1649
		Huntingdon, Que.	
ORBANE, Edith H.	B.Sc.2	1830 Lincoln Ave. Apt.2, Montreal.	
O'REILLY, Gerald	Grad.School	220 Pine Ave., Montreal.	
		451 Ridout St., N., London, Ont.	
O'REILLY, Henry J.	Grad.School	Box 216, Macdonald College, Que	739
		Rossland, B.C.	
ORGAN, Anita-June	B.A.1	317 Birch Ave., St. Lambert, P.Q.	St.L.7675
ORLADY, Betty	B.A.3	3010 Westmount Blvd., Westmount	WI 6640
		Durand, Wisc. U. S. A.	
ORMROD, John K. T.	Med.3	Douglas Hall, Montreal	BE 2885
		1109 St.Paul St., Three Rivers, Que.	

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ORNSTEIN, William S.	B.Sc.1	6148 Durocher Avenue, Outremont	DO 7572
ORR, Edward de L.	Agr.1	Macdonald College, Que.	Ste A. 407, 810
		Ste Anne de Bellevue, Que.	
ORR, Robert	Agr.4	Macdonald College, Que.	Ste A. 407, 810
		847 Outremont Ave., Outremont.	
ORR, Marguerite	B.A.4	4780 Cote des Neiges Rd., Montreal	WI 7228
ORTEGA, Alvaro	B.Arch.3	3480 Durocher St., Montreal	PL 0787
		Carrera 15,No.10-71 Bogota,Colombia.	
ORTENBERG,Charlotte	B.A.2	397 St.Joseph Blvd.W.Apt.12,Montreal	DO 3325
OSLER, Norma A.E.	B.A.3	4516 Old Orchard Ave., Montreal	EL 3855
OSLER, Thomas R.	Med.1	Douglas Hall, Montreal	BE 2885
		Comox, B.C.	
OSTAPOVITCH, Peter A.	Dent.3	3482 Park Avenue, Montreal	LA 7302
		Theodore, Sask.	
OSTIGUY, Pierre E.	B.Eng.2	1514 McGregor Street, Montreal	FI 5759
OSTRY, George P.	B.Eng.2	4127 Wilson Ave., Montreal	DE 0336
		Flin Flon,Manitoba.	
OTT, Helmuth G.	B.Eng.2	3520 Van Horne Ave., Montreal	AT 5216
OUELLETTE,Maurice R.	B.Com.4	5363 Duquette St., Montreal	DE 8604
OUELLETTE,Raymond E.	B.Eng.1	1478 Decarie Blvd., Montreal.	
		728 7th Avenue, Grandmere, Que.	
OUIMET, Paul A.	B.C.L.3	208 Cote St.Antoine Rd., Westmount	WE 6062
OWEN, Demaris E. H.	B.A.1	3467 Ontario Avenue, Montreal	MA 5564
OWENS, E. Marjorie	B.A.3	605 Roslyn Avenue, Westmount	EL 4366
OZIER, Morris	B.A.3	133 De L'Epee Ave.Apt.2, Montreal	CR 5971
PAINE, Frederick J.	B.Eng.3	3856 Draper Avenue, Montreal	DE 7513
PALMER, Edward H. P.	B.Eng.1	85 Columbia Avenue, Westmount	WI 3212
PALMER, Hugh D.	Med.4	3851 University St.,Montreal	BE 2885
		3820 Waldo Ave., New York, N.Y.	
PALMER, Kathleen	Music P.	211 Lakeshore Road, Strathmore.	
PALMER, M. June	B.H.S.3	Macdonald College, Que.	Ste A. 806, 830
		Cowansville, Que.	
PALMER, Walter M.	B.Sc.3	1 Redpath Row, Montreal	FI 7970
PALTIEL, Khayyam Z.	B.A.4	4293 Esplanade Ave., Montreal	LA 5738
PANOS, D. George	Grad.School	3616 Park Avenue, Montreal	PL 5537
PAPANEK, Rudolf J.	B.Arch.1	2079 Sanguinet St., Montreal.	
PAPAZIAN, Levon	Med.4	3851 University St.,Montreal	BE 2885
		Nelson, B.C.	
PAPINEAU-COUTURE, G.	Grad.School	3162 Tremblay St., Montreal	AT 7938
PAQUIN, Jean	B.Eng.1	4974 Grosvenor Ave.,Montreal	AT 5440
PARE, Jules Peter	Med.4	33 Rosemount Avenue,Westmount	WE 4297
PARENT, Margaret L.	B.H.S.3	Macdonald College, Que.	Ste A. 806, 830
		19 Clough Ave., Lennoxville, Que.	
PARENT, Paul E.	B.Eng.1	120 Sherbrooke St. W., Montreal.	
		271 Bronson Avenue, Ottawa, Ont.	
PARK, John K.	B.Eng.2	177-17th Avenue, Lachine, Que.	Lach. 1903-J
PARK, Leonard V.	B.A.2	4930 Cote des Neiges Rd., Montreal	AT 7965
PARKER, James W.	Agr.2	Macdonald College, Que.	Ste A. 407, 810
		"The Lea" St.John's, Newfoundland.	
PARKS, John	Med.2	257 Dorchester St.W., Montreal	LA 8686
		3465 Irving St., New Westminster, B.C.	
PARLEE, H. Bruce G.	Med.3	3514 Hutchison St., Montreal	HA 4045
		120 Main St., Saint John, N.B.	
PARSONS, R. Milton	Med.3	2070 Union Avenue, Montreal	MA 1069
		Ochre Pit Cove, Newfoundland.	
PARSONS, W. David	B.Sc.1	508 Grosvenor Avenue, Westmount	EL 7618
PARTRIDGE, Elizabeth	B.A.3	165 Edgehill Road, Westmount	WE 6552
PATRIDGE, I. Gloria	B.A.2	165 Edgehill Road, Westmount	WE 6552
PATCH, Colin M.	B.Sc.2	118 Aberdeen Ave., Westmount	WE 4448
PATCH, Peter E.	Med.3	3543 Lorne Avenue, Montreal	MA 6507
		Windsor, Vt.	
PATERSON, Nancy L.	B.A.1	Royal Victoria College, Montreal	MA 9176
		500 Wilbrod St., Ottawa, Ont.	
PATERSON, John	B.A.3	5353 Bannantyne Avenue, Verdun.	

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Where two addresses are given, the second is the home address.

PATON, Dorothy M.	B.Sc.3	4031 Cote des Neiges Rd., Montreal	FI 5861
		c/o Surgeon Gen.with Gov't of Bengal, Calcutta, India.	
PATRICK, John W.	Med.3	4465 Sherbrooke St.W., Westmount	WE 2114
PATTERSON, Hugh J.T.	B.Eng.2	5607 Queen Mary Rd., Montreal	EL 2328
PATTERSON, Irma M.	B.Com.3	655 Davaar Avenue, Outremont	CA 7782
PATTERSON, John R.	Agr.1	Macdonald College, Que.	Ste A. 407, 810
		378 Third Avenue, Ottawa, Ont.	
PATTERSON, M. Joan.	B.A.4	5607 Queen Mary Road, Montreal	EL 2328
PAUL, Vernon W.	B.Sc.1	135 Third Ave., Verdun, Que.	YO 6611
		32 Irving St.,San Fernando,Trinidad,B.W.I.	
PAUMAN, Eva G.(Mrs.)	B.H.S.4	Ste Anne de Bellevue, Que.	
PAVLASEK, Tomas Jan F.	B.Eng.3	3577 Peel Street, Montreal	LA 2736
		171 Clemow St., Ottawa, Ont.	
PAWLIKOWSKA, Anna M.	B.Sc.3	1000 Sherbrooke St. W., Montreal	BE 0657
		Warsaw, Poland.	
PAYNE, T. Philip B.	Med.1	548 Prince Arthur St.W., Montreal	MA 7845
		Glenlee,Belmont Rd.,St.Michael,Barbados,B.W.I.	
PEAD, Barbara N.	B.A.4	15 Beverley Ave.,Town of Mount Royal	AT 4687
PEARLMAN, Shirley J.	B.H.S.1	Macdonald College, Que.	Ste A. 806, 830
		312 Blackburn Avenue, Ottawa, Ont.	
PEARMAN, Robert W.	Med.2	1471 Chomedy St. Apt.5, Montreal	WI 1042
PEARSE, Mary C.	B.H.S.2	Macdonald College, Que.	Ste A. 806, 830
		4 Cluny Drive, Toronto, Ont.	
PEARSON, E. Bernard.	B.Eng.2	4727 Fulton Ave.Apt.1, Montreal	EX 1950
		40 Belmont Avenue, Ottawa, Ont.	
PEARSON, Patricia L.	Teacher'S(Elem)	445 Victoria Avenue, Westmount	DE 4948
PEAT, David W.	B.Sc.1	Douglas Hall, Montreal	BE 2885
		50 Dresden Ave., Gardiner, Maine, U.S.A.	
PEBERDY, Arthur H.	B.Arch.1	55-35th Avenue, Lachine	Lach. 159
PECMANOVA, Sona	Music	2300 Bourbonniere Ave.Apt.4, Montreal.	
PEDVIS, Sydney	Med.3	4270 City Hall Avenue, Montreal	PL 3782
		205 Brown Avenue, Quebec, P.Q.	
PELLETIER, Real	Grad.Sch	357 St.Louis Square, Montreal	LA 4576
PELTON, Earl A.	B.Sc.1	4421 Hingston Avenue,Montreal	EL 6748
PENGELLEY, Harold O.	B.Sc.1	3581 Durocher Street,Montreal	HA 7778
		Clifton Hill, Port Morant, Jamaica, B.W.I.	
PENNOCK, Hilda G.	Grad.Nurses	772 Sherbrooke St. West, Montreal	HA 6268
		Mount Forest, Ont.	
PENROSE, Ernest J.	B.Sc.1	28 Campbell Avenue, Montreal West	WA 3135
PENTLAND, Christine.	Lib. School	Royal Victoria College, Montreal	MA 9176
		250 Dromore Avenue, Winnipeg, Man.	
PEPPER, James M.	Grad.School	3581 Lorne Ave.Apt.6, Montreal	MA 4048
		2656 Cedar Hill Road, Victoria, B.C.	
PERCIVAL, Allan N.W.	B.Sc.1	3619 University Street, Montreal.	
		Priors Lodge,Bream,Nr.Lydney,Glos,England.	
PERCIVAL, Walter L.	Med.4	3851 University St., Montreal	BE 2885
		126 Moncton Avenue, Quebec, P.Q.	
PERCY, Edward C.	B.Sc.1	5615 Queen Mary Rd., Hampstead	WA 2941
PERELMUTER, Bernard.	B.Sc.1	2247 Maplewood Ave.Apt.2, Montreal	AT 6802
PERLIN, Arthur S.	Agr.3	Macdonald College, Que.	Ste A. 407, 810
		648 George St., Sydney, N.S.	
PERMAN, Neville J.	B.Eng.1	1210 Pine Avenue, Montreal	HA 0098
		c/o Canadian Celanese, Drummondville, Que.	
PERON, René E.	Arts P.	4337 Old Orchard Avenue, Montreal	EL 9113
PERRAULT, Charles H.	B.Eng.4	2135 Gouin Blvd. W., Montreal	BY 1402
PERRAULT, Michel B.	B.Eng.1 Music P.	2135 Gouin Blvd. W., Montreal	BY 1402
PERRETT, Norman W.	B.Eng.1	1038 Prud'homme Ave.,Montreal	DE 3946
PERRY, Helen I. M.	Grad.Nurses	3843 Marlowe Avenue, Montreal	DE 8243
		Hudson, Que.	
PERRY, June B.	B.Sc.2	1374 Pine Avenue, Montreal	PL 3528
PETERSON, Joan E.	Teacher's(Elem)	301 Edison Avenue, St.Lambert,Que.	Zone 7-345
PETRIE, David G.	B.A.2	Box 41, Ste Anne de Bellevue, Que.	Ste A. 473

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

PETRIE, M. Rae	B.H.S.4	Macdonald College, Que.	Ste A. 806, 830
		464 Clarke Avenue, Westmount.	
PETRUCHICK, John	B.Eng.2	3892 Colonial Avenue, Montreal.	
PHELPS, Eric L.	Med.2	Douglas Hall, Montreal.	BE 2885
		Box 188, Ste.Agathe des Monts,Que.	
PHENIX, Gaston	B.Com.2	2 rue St. Pierre, Laprovidence,St.Hyacinthe	1059-W
PHILLIPS, Helena F.	B.Sc.3	50 Jules Verne Street, Montreal.	DO 7702
PHILLIPS, Melvin W.	Med.3	3602 Durocher St., Montreal.	BE 1807
		392 St.Charles St., Elgin, Ill. U.S.A.	
PHILPOTT, Joan M.	B.A.2	4118 Western Avenue, Westmount.	FI 4900
		50 Geneva St., Ottawa, Ont.	
PHINNEY, John I.	Arts P.	3665 Lorne Crescent, Montreal.	
		Fairville, N.B.	
PICARD, Ray M.	Arts P.	5588 Notre Dame de Graces Ave.,Mtl.	WA 2488
PICHETTE, Jacques	B.Eng.2	3539 Ste Famille St., Montreal.	LA 5951
		399 5th Avenue, Grand'Mere, Que.	
PICHETTE, Jean-Louis	B.Sc.1	3539 Ste Famille St., Montreal.	LA 5951
		399, 5th Ave., Grand'mere, Que.	
PICHETTE, Monique	B.Com.2	3539 St. Famille St., Montreal.	LA 5951
		399 5th Ave., Grand'mere, Que.	
PIERPONT, Howard C.	Med.4	545 Pine Ave. W., Montreal.	MA 1545
		718 Second St., Marietta, Ohio.	
PIGEON, Jacques	B.Sc.1	359 Roslyn Avenue, Westmount.	DE 9758
PIGEON, Madeline J.	Phys. Ed.2	42 Yorke Avenue, Westmount.	DE 2231
PIMENOFF, Vladimir J.	B.Eng.3	4843 Cumberland Ave., N.D.G.	WA 3572
PINEO, Adelaide Q.	B.Sc.1	4360 Westmount Avenue,Westmount.	FI 3793
PINSKY, Alex.	Grad.Sch.	5582 Hutchison Street,Outremont.	CR 2477
PINSKY, Naomi	B.A.1	389 Querbes Avenue, Outremont.	DO 9953
PIPER, Mona I.	B.A.3	6 Lakeside Ave., Lakeside, Que.	Pte.Claire 359
PIPER, William S.	B.Eng.3	2047 Vendome Avenue, Montreal.	DE 2103
PIRIE, Constance E.	B.H.S.4	Macdonald College, Que.	Ste A. 806, 830
PITCAIRN, Barbara D.	B.Sc.4	158 24th Avenue, Lachine.	Zone 8-931
PITT, Edith S.	Grad.Sch.	147 Pine St., Portland, Maine.	
PITTS, Gordon M.	B.A.4	3459 Vendome Ave., Montreal.	WA 6932
PLACE, Barbara L.	B.Sc.1	4131 Cote des Neiges, Montreal.	FI 8778
PLACE, Mary I.	B.A.3	4131 Cote des Neiges, Montreal.	FI 8778
PLAKINS, Harold G.	Dent.1	3507 University St., Montreal.	PL 0548
		10 West 169 St., New York, U.S.A.	
PLAMONDON, Charles	B.Eng.4	1441 Drummond St., Montreal.	MA 4171
		3 Levis Avenue, Quebec City.	
PLANCK, Betty A.	B.Sc.1	3519 Grey Avenue, Montreal.	EL 7736
PLANCH, M. Joy	B.H.S.4	Macdonald College, Que.	Ste A. 806, 830
		28 York Street, East Angus, Que.	
PLECASH, Myles	Med.1	3618 Oxenden Street, Montreal.	MA 7965
		Princeton, British Columbia.	
POAPST, Peter A.	B.Sc.3	3851 University Street, Montreal.	BE 2885
		Stanstead, P.Q.	
POIRIER, Sister Mary	Grad.Sch.	D'Youville College, Buffalo, N.Y.	
POITEVIN, Louis M.	B.Eng.2	3407 Peel Street, Montreal.	LA 7468
		355 Wilbrod St., Ottawa, Ont.	
POLIS, Irene	B.Com.4	386 Portland Avenue, Montreal.	AT 9247
POLIS, John	B.Sc.1	386 Portland Avenue, Montreal.	AT 9247
POLLACK, Morris	B.Sc.1	5251 Durocher Street,Outremont.	CR 6082
POLONOFF, Irving I.	B.Eng.1	4808B Park Avenue, Montreal.	Ta 6027
POLSON, Joseph S.	Med.1	3657 St. Urbain St., Montreal.	Ha 8909
POMERANTZ, Zvy	B.Sc.4	5301 Clark Street, Montreal.	
POMEROY, R. Bruce	B.Sc.(Agr.)3	Macdonald College, Que.	Ste A. 407, 810
		396 Olivier Avenue, Montreal.	
PONMAN, William E.	B.Sc.4	5507 Queen Mary Road, Montreal.	EL 1989
PONTBRIAND, Arthur E.	B.Sc.2	124 Georges Street, Sorel, Que.	
POOLE, Ross A.	B.Eng.1	4450 Old Orchard Avenue, Montreal.	EL 1660
POPE, Herbert E.	B.A.1	495 Prince Arthur St.W., Montreal.	
		295 Cedar Street, Sudbury, Ont.	
POPLIGER, Lawrence S.	B.C.L.2	262 De L'Epee Ave., Outremont.	CA 6275

NAME	FACULTY AND YEAR	ADDRESS	TEL. No.

Where two addresses are given, the second is the home address.

POPOVICH, Maxim	B.Sc.4	5757 Decarie Blvd., Montreal	AT 1625
POSER, Ernest G.	Agr.1	Macdonald College, P.Q.	Ste A. 407, 810
		164 St. Paul St. W., Montreal.	
POULSON, John A.	B.Eng.1	3851 University St., Montreal	BE 2885
		239 E. Genesee St.; Auburn, N.Y.	
POW, Cyrus G.	Med.1	3609 University St., Montreal	LA 6307
		Pincher Creek, Alberta.	
POWELL, Robert R.	Arts P.	686 Roslyn Avenue, Westmount	EL 1385
POWER, John K.	B.Com.4	432 Strathcona Avenue, Westmount	FI 7347
POWLES, C.H.	Theol.3	3473 University St., Montreal	MA 4902
		3631 Lorne Crescent, Montreal	LA 6585
POWLES, Joy R.	B.A.2	3631 Lorne Crescent, Montreal	LA 6585
POWLES, Kathleen A.	B.A.2	3631 Lorne Crescent, Montreal	LA 6585
POWLES, William E.	Med.3	3631 Lorne Crescent, Montreal	LA 6585
POZNANSKI, Zdislaw.	B.Eng.1	3535 Shuter Street, Montreal	PL 6021
		Warsaw, Poland.	
PRATT, Henry N.	Med.2	3608 Oxenden Avenue, Montreal	PL 1305
		7 Jay St., Glens Falls, N.Y.	
PRENDERGAST, Denis S.	Teacher's(Inter)	3877 LaSalle Blvd., Verdun	WE 3866
PRESSMAN, Seymour J.	B.Sc.1	1249 Greene Avenue, Westmount	WI 4383
PRIVETT, Orville S.	Grad.School	7a Legault Ave.,Ste.Anne de Bellevue.	
		469 Nightingale Avenue, London, Ont.	
PROCOPE, Clayton	B.Sc.1	3485 McTavish St., Montreal	PL 1649
	Music P.	3 Alexandra St., St.Clair,Port of Spain,	
		Trinidad, B.W.I.	
PROCOPE, Grace E.M.	B.A.2	4544 St.Catherine St.W., Westmount	FI 2052
		3 Alexandra St. Port of Spain,	
		Trinidad, B.W.I.	
PROCTOR, George E.M.	B.Eng.1	3462 St. Famille St., Montreal	HA 1719
		177 Inglewood Drive, Toronto,Ont.	
PROPAS, Max	B.Eng.4	2234 Belgrave Ave., Montreal	WA 5766
PROUDFOOT,Frederick G.	Agr.4	Macdonald College, Que.	Ste A. 407, 810
		Salt Springs, N.S.	
PROVENCHER, Gérard	Agr.2	Macdonald College, Que.	Ste A. 407, 810
		2253-2nd Ave., Three Rivers, Que.	
PROVENT, Joan M.	B.A.1	Royal Victoria College, Montreal	MA 9176
		Bedford, Que.	
PROVERBS, Ivor H.	Agr.2	Macdonald College, Que.	Ste A. 407, 810
		Flint Hall, St. Michael, Barbados, B.W.I.	
PROVERBS, Maurice D.	Agr.3	Macdonald College, Que.	Ste A. 407, 810
		"New Haven, Hastings,Barbados, B.W.I.	
PROVOST, Guy	Agr.2	Macdonald College, Que.	Ste A. 407, 810
		4027 Harvard Avenue, Montreal.	
PRYBYLO, John A.	Med.2	Homeopathic Hospital, Montreal	DE 3571
		107 Church St. N., Walpole, N.H.	
PULLINGER, Albert J.H.	B.A.4	3630 Durocher St., Montreal.	
		334 8th St.E., Prince Albert, Sask.	
PURDY, James E.	Arts P.	1216 St. Matthew St., Montreal	WI 8080
		118 Robertson St.,Victoria, B.C.	
PUTNAM, Robert M.	Med.2	3851 University St., Montreal	BE 2885
		1 Lewis Road, Winchester, Mass.	
PYE, Ella H.	B.A.2	4059 Harvard Ave., Montreal	DE 9833
PYE, Jack L.	B.A.4	6 Weredale Park, Westmount	FI 9621
QUINN, Charles W.	Arts P.	Presbyterian College,McTavish St.	PL 1649
	Theol.1	Pictou, N.S. Box 234.	
QUINN, Herbert F.	Arts P.	4332 Earnscliffe Avenue, Montreal	EL 4843
RABATICH, Stephen	Med.1	Douglas Hall, Montreal	BE 2885
		Noranda, Que.	
RABIN, Samuel	B.Eng.1	5162 Jeanne Mance St., Montreal	CR 3922
RAE, Howard K.	B.Sc.1	28 Jasper Ave., Town of Mount Royal	AT 2529
RAINVILLE, Jacques	Agr.Dip.1	Macdonald College, Que.	Ste A. 407, 810
		3415 Ontario Ave., Montreal.	
RAKITA, Louis	Arts P.	5587 Jeanne Mance St., Montreal	CA 3057
RAKONITZ, Desiré	Grad.School	376 Roslyn Ave., Westmount	EL 3431

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

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RALPH, Arthur O.	Grad.School	3580 Durocher St., Montreal 586 Lisgar Street, Ottawa.	PL 7519
RAMESAR, Simon C. L.	B.Sc.1	3433 Peel St., Montreal Chaguanas, Trinidad, B.W.I.	HA 2412
RAMPERSAUD, Olga	B.Sc.1	3585 St.Famille Street, Montreal 29 Queen St.,Port-of-Spain,Trinidad,B.W.I.	MA 5514
RAMSAY, Edgar W.S.	B.Sc.2	14 St.George St.,Ste Anne de Bellevue, Que.	Ste A.2108
RAMSEY, Archer	B.Eng.2	1496 Mountain Street, Montreal	PL 2675
RAMSEY, Marguerite M.	Arts P	1496 Mountain Street, Montreal	PL 2675
RAMSEY, Robert B.	B.Sc.2	1496 Mountain Street, Montreal	PL 2675
RANDALL, Herbert S.	Med.4	3483 Peel Street, Montreal Bristol, N.B.	LA 0643
RANDLETT, Ralph P.	B.Sc.1	852 Osborne Avenue, Verdun	YO 6620
RANDOLPH, John H.	Grad.School	52 Academy Road, Westmount	FI 2514
RANKINE, M. Elspeth	B.A.2	8031 Western Avenue, Montreal West	EL 9022
RANSOM, George E.	B.Eng.4	5443 Grovehill Place, Montreal Knowlton, Que.	DE 8603
RAPAPORT, Ruth	Music P	759 Davaar Avenue, Outremont	CA 4861
RAPHAEL, S. Bernard	B.Sc.4	831 Dollard Avenue,Outremont	CA 4171
RASMINSKY, Rhoda	B.A.2	609 Carlton Avenue,Westmount	WE 1636
RATHWELL, Beverley M.	B.Eng.1	Douglas Hall, Montreal Leonard, Ont.	BE 2885
RAWLINS, Joyce D.	B.A.3 Music	3585 Ste Famille St., Montreal 40b Ariapita Ave.,Port-of-Spain, Trinidad, B.W.I.	MA 5514
RAWLINS, William A.	B.Sc.1	3585 St. Famille St., Montreal 30 Fitt St.,Port-of-Spain,Trinidad,B.W.I.	MA 5514
RAY, Dorothy Ann	B.Sc.4	43 Windsor Avenue, Westmount	WA 3406
RAYMOND, James David	B.Eng.1	5260 Esplanade Avenue, Montreal	CR 3855
REA, Robert G.	B.Eng.3	76-5th Avenue, Lakeside, Que.	Pte. Cl. 2301
READ, Charles H. Jr.	Med.4	620 Prince Arthur St.W., Montreal 9 Rupert St., Amherst, N.S.	LA 9489
READE, Jack Lee	B.Eng.1	4909 Grosvenor Avenue, Montreal	AT 5794
READ, John Hamilton	B.A.2	5311 Cote St. Luc Rd. Montreal	DE 8056
REAY, Barbara	B.A.1	3742 Westmount Blvd., Westmount	WI 5496
REAY, Frances	Music P	1186 Atwater Avenue, Montreal 14 Water Street, Charlottetown, P.E.I.	WI 0842
REDFERN, Nancy I.	B.Sc.4	2076 Sherbrooke St. W., Montreal	WI 4759
REDMOND, Lila	Med.3	1469 Drummond St.Apt.48, Montreal 1 Woodlands, Quebec.	PL 4723
REED, George E.	B.Eng.3	1823 Desjardins St., Montreal	CL 2675
REHDER, Thomas F.	B.Eng.2	3437 Peel St., Montreal Bowmanville, Ont.	PL 1674
REID, Allana G.C.	B.A.4	152 Hillcrest Ave., Montreal West	WA 8105
REID, Devota Mae	B.Sc.2	Royal Victoria College, Montreal Centreville, N.B.	MA 9176
REID, Ian C.	Agr.Dip.1	Macdonald College, Que. 3678 St. Famille St., Montreal.	Ste A. 407, 810
REILLEY, Mary E.	B.A.4	120 Easton Avenue, Montreal West	DE 0759
REILLY, Douglas H.	Med.4	451 Claremont Avenue, Westmount	DE 2403
REILLY, Nelson	Med.3	3617 Lorne Crescent, Montreal 197 Belmont Avenue, Ottawa, Ont.	LA 8013
REIMER, Helena	Grad.Nurses	772 Sherbrooke St., Montreal Steinbach, Man.	HA 6268
REISLER, Isaac	B.Sc.1	4911 St. Urbain Street, Montreal	BE 2128
RENNELL, Charles L.Jr.	B.Sc.1	477 Prince Arthur St.W., Montreal West. Port Kent, New York, U.S.A.	
REMILLARD, J. L. P.	B.Eng.4	419 Prince Arthur St.W., Montreal 160 Champlain St., Hull, P.Q.	HA 1088
RENAUD, Guy	B.Com.3	1441 Drummond St., Montreal 52 Casot Avenue, Quebec, P.Q.	MA 4171
RENNIE, Douglas L.C.	B.Sc.1	3485 McTavish Street, Montreal "Cavaliers" Cross Roads,Jamaica,B.W.I.	PL 1649
RENSHAW, Claire	B.A.2	9 Canary Rd., Strathmore, Que.	Lachine 807W
RESCH, Rachael.E.	Grad.Nurses	772 Sherbrooke St. W., Montreal 2454 Atkinson St., Regina, Sask.	HA 6268

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

RETHORET, Ralph H.	B.Eng.1	4726 Grosvenor Avenue, Montreal	EL 1575
REUTLINGER, Johanna	Arts P	702 Davaar Avenue, Outremont	CR 8651
REYNOLDS, Arthur P.	Med.1	1122 Sherbrooke St. W., Montreal. 21 3rd Street, Presque Isle, Maine.	
RHOADES, Leonard	Med.1	620 Prince Arthur St., Montreal 725 Speer St., Belle Vernon, Pa.	LA 9489
RICE, William B.	B.Eng.3	7471 de l'Epée Avenue, Montreal	CA 7014
RICHARD, Roger A.	B.Eng.1	3844a Drolet Street, Montreal.	
RICHARDSON, Dorothy A.	B.Com.2	3433 Hutchison Street, Montreal Riverbend, Que.	LA 4790
RICHARDSON, Frances M.	Grad.School	3747 De L'Oratoire Ave., Montreal	EX 2990
RICHARDSON, Noel L.	Med.4	620 Prince Arthur St., Montreal 3430 W 42nd Ave., Vancouver, B.C.	LA 9489
RICHARDSON, Thomas A.	Med.4	3483 Peel Street, Montreal 815 Prospect Avenue, Calgary, Alta.	LA 0643
RICHER, Jean H.	B.Eng.4	708 Victoria Avenue, Westmount.	
RICHLER, Myer	B.Eng.1	4646 Hutchison Street, Montreal	CR 4248
RICHTER, Helmut A.	B.A.3	3609 University Street,Montreal Desbiens Mills, Lake St.John,P.Q.	LA 6307
RIDDELL, Allan R.	Agr.Dip.2	Macdonald College, Que 728 Lansdowne Avenue, Westmount.	Ste A. 407, 810
RIGBY, David W.	B.Sc.1	32 Finchley Road, Hampstead	DE 5608
RILEY, George C.	B.Sc.1	Douglas Hall, Montreal Hudson Heights, P.Q.	BE 2885
RISDON, Jill	B.A.3	Royal Victoria College, Montreal 60 Chestnut Park Road, Toronto.	MA 9176
RISEBROW,Marjorie R.	B.Sc.1	249 Westminster Ave.,Montreal West	DE 9597
RISQUIN, Ginette I.	Arts P	4935 Queen Mary Road, Montreal	AT 9105
RITCHIE, Frederick H.	Agr.3	Macdonald College, Que R.R.1 Aylmer East, Que.	Ste A. 407, 810
RITCHIE, Janet	B.H.S.3	Macdonald College, Que R.R. 1 Aylmer East, Que.	Ste A. 806, 830
RITCHIE, Ross	B.Eng.4	3592 University Street, Montreal Chateauguay Heights, Que.	PL 2435
ROBB, Gordon A.	B.S.1	4167 Beaconsfield Avenue, Montreal	WA 4791
ROBB, Mary L.	B.Sc.4	4167 Beaconsfield Avenue, Montreal	WA 4791
ROBERGE, Paul	Agr.2	Macdonald College, Que Herouxville, Que.	Ste A. 407, 810
ROBERTS, Mrs.Marian S.	Teacher's(Inter)	3520 Shuter St.,Apt.1,Montreal	HA 8419
ROBERTSON, A.Elizabeth.	Med.1	3619 University St., Montreal. South Devon, N.B.	
ROBERTSON, Donald C.	Agr.2	Macdonald College, Que R.R. 3 Lachute, Que.	Ste A. 407, 810
ROBERTSON, Jean A.	Med.1	c/o Miss A. Graham, 539 Pine Ave.W., Montreal. 2154 York Street, Vancouver, B.C.	
ROBERTSON, Marilyn D.	B.A.1	4167 Melrose Avenue, Montreal	DE 8814
ROBERTSON, Ross E.	Grad.School	3482 Durocher Street, Montreal Great Village, N.S.	PL 0787
ROBICHAUD, Fernand.	B.Eng.1	3500 Durocher Street, Montreal	MA 1960
ROBINSON, Bernard B.	Med.2	477 Prince Arthur St. W., Montreal 79 Lincoln Street, Laconia, N.H.	LA 3691
ROBINSON, Elaine L.	B.Sc.1	36 Forden Crescent, Westmount	WE 4710
ROBINSON, Gerard A.	Dent.2	St. Mary's Hospital, Montreal 545 Pine Ave. W., Montreal.	AT 4711
ROBINSON, Margaret H.	Grad.Sch	539 Pine Ave. W., Montreal. 117 Oak Hill Rd., Ithaca, N.Y.	
ROBITAILLE, Armel	B.Sc.2	4415 Coolbrook Ave., Montreal	EL 2690
ROCHE, Francis F.	B.Eng.1	2299 Melrose Avenue, Montreal	WA 1826
ROCHE, Mary N.	Grad.School	2299 Melrose Avenue, Montreal	WA 1826
ROCHE, Maurice J.	B.Eng.4	3426 McTavish Street, Montreal Flin Flon, Man.	LA 9894
ROCHLIN, Abraham.	B.Sc.2	5218 Jeanne Mance St., Montreal	TA 6956
ROCHLIN, Isidore.	Grad.School	5218 Jeanne Mance St., Montreal	TA 6956
RODGERS, Kenneth W.	B.Com.1	5600 Bradford Place, Montreal	AT 1081
RODRIGUEZ-FORJONEL,José	Med.1	3669 Jeanne Mance St., Montreal 120 Frederick St.,Port-of-Spain, Trindiad, B.W.I.	HA 5427

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
RODIER, Ruth	B.A.1	754 Wilder Avenue, Outremont	AT 5692
ROGERS, Lailey	B.Sc.1	Apt.C21,1321 Sherbrooke St.W.,Montreal	LA 0403
ROGERS, Sidney I.	Med.1	517 Pine Ave. W., Montreal	MA 2948
		825 Brentwood Ave., Youngstown, Ohio.	
RORISON, James A.	Med.1	Howick, Que.	
ROSE, Raymond G.	B.A.4	2685 Rushbrooke St., Montreal	FI 8233
ROSE, Theodore F.	Med.3	3655 Oxenden Ave., Montreal	HA 1467
ROSEMARIN, Samson.	Music	391 St.Joseph Blvd.W., Montreal	CR 6496
ROSEN, David	B.Sc.1	3983 St.Urbain St., Montreal	MA 6819
ROSEN, Harold J.	Med.2	3983 St.Urbain St., Montreal	MA 6819
ROSENBAUM, Harold D.	Dent.1	1564 Ducharme Avenue, Outremont	CA 4100
ROSENBAUM, Harriet.	B.A.1	c/o S.Sanfrine,4678 Hutchison St., Montreal.	
		Sturgeon Falls, Ont.	
ROSENBERG, Bernard L.	Med.4	5635 Cantebury Avenue, Montreal	AT 5968
ROSENBERG, Eudice.	B.A.2	1080 Lajoie Ave., Apt.8, Outremont	DO 2569
ROSENBERG, Lyon S.	Med.1	4602 Van Horne Avenue, Montreal	EX 2103
ROSENTHAL, Natalie.	Music	3714 Westmount Blvd., Westmount	WE 2125
ROSENTZVEIG, Leo.	B.C.L.1	403 St. Joseph Blvd.W.Apt.20, Montreal.	
ROSENZVEIG, Ruth.	B.A.2	615 Champagneur St., Montreal	CR 1961
ROSS, Allan T.	B.Eng.1	3587 Marlowe Avenue, Montreal	DE 7329
ROSS, Denis A.	B.Com.2	3605 University St., Montreal	MA 3101
		35 Goulburn Avenue, Ottawa, Ont.	
ROSS, Elaine	B.A.1	56 Upper Bellevue Avenue, Westmount	EL 2544
ROSS, Elizabeth G.	Teacher's(Inter)	88 Percival Avenue, Montreal West	WA 4366
ROSS, James G.	Grad.School	762 Sherbrooke St.W., Montreal	MA 0298
		Elgin, Man.	
ROSS, William K.	B.Eng.3	2063 Union Avenue, Montreal	LA 5891
ROSS, Winnifred E.	B.H.S.2	Macdonald College, Que.	Ste A. 806,
		4374 Earnscliffe Avenue, Montreal	830
ROSSI, Ernest J.	B.Sc.1	6657 Monkland Avenue, Montreal	WA 5281
ROSSY, Edward	B.A.1	1257 Belanger St.E., Montreal	CR 9906
ROSSY, Michael	B.Com.4	1257 Belanger St.E., Montreal	CR 9906
ROSTEN, Jean	B.Sc.3	495 Prince Arthur St.W., Apt.20,Montreal	LA 4357
		Warsaw, Poland.	
ROTHSCHILD, Edgar.	B.Eng.1	1700 McGregor St.Apt.17, Montreal	WE 5275
ROTHSCHILD, Fred.	B.Com.3	1700 MaGregor St.Apt.17, Montreal	WE 5275
ROTHSCHILD, Gerhard.	B.Sc.1	2295 Wilson Ave., Montreal	WA 6913
ROULSTON, William.	B.Sc.2	34-A Lake Breeze St.,St.Eustache sur le Lac,Que.	
		2113 Smith St., Regina, Sask.	
ROUNDS, Charles E.	Dent.1	3620 Durocher St., Montreal	MA 6724
		River St., Norwell, Mass.	
ROUTLEDGE, Ralph F.	B.Eng.2	4580 Hampton Ave., Montreal	EL 2684
ROWAT, Edward W.	B.A.3	5035 Victoria Ave.,Montreal	EX 1482
ROWE, Edward R.	B.Sc.1	2076 University St., Montreal	HA 7760
		150 Rochester St., Ottawa, Ont.	
ROWLANDS, James A.	B.Sc.1	4571 Harvard Avenue, Montreal	WA 4403
ROWLSON, Ira A. Jr.	Dent.1	3545 Park Avenue, Montreal	PL 3698
		R.F.D.No.1, Plattsburg, N.Y.	
ROY, Cecilia A.	B.H.S.1	Macdonald College, Que.	Ste A. 806,
		25 Thurlow Rd., Hampstead, Que.	830
ROY, Donald K.	B.Sc.1	1326 Mount Royal Blvd., Montreal	CA 6792
ROYER, France M.	Grad.School	411 St.Joseph Blvd.W., Outremont	DO 4543
ROY, Mary Joan	B.A.3	25 Thurlow Road, Hampstead	WA 2176
RUBEC, Sam P.	B.Eng.1	65 Sherbrooke St.W., Montreal.	
		248 Perrault St., Rouyn, Que.	
RUBLEE, Jack D.	Med.4	3483 Peel St., Montreal	LA 0643
		Wilkie, Sask.	
RUDDICK, R. Bruce.	Med.2	1455 Drummond St.Apt.716,Montreal	PL 4587
RUDE, Robert L.	B.Eng.1	5380 Macdonald Avenue, Montreal	DE 6104
RUDNICKI, Kasmer V.	B.Sc.1	481 Prince Arthur St., Montreal	HA 5617
		Box 237, Rouyn, Que.	
RUDOLPH, Aaron H.	B.Sc.3	425 Champagneur St., Montreal	TA 1957
RUDOLPH, Anita	B.A.3	425 Champagneur Ave., Outremont	TA 1957
RUDOLPH, Philip	Agr.4	Macdonald College, Que.	Ste A. 407,
		5466 Park Ave. Apt.46, Montreal.	810

NAME	FACULTY AND YEAR	ADDRESS	TEL.NO.

Where two addresses are given, the second is the home address.

RUSKIN, Julius	B.Eng.1	5735b Esplanade Avenue, Montreal	CA 8449
RUSSELL, Dorothy A.	B.Sc.2	2358 Grand Blvd., Montreal	EL 3517
RUSSELL, Jack A.	B.Com.3	4328 Wilson Ave., Montreal	EL 6423
RUSSELL, Linda A.	Grad.Nurses	772 Sherbrooke St.W., Montreal	HA 6268
		Riverside, A. Co., N.B.	
RUSSELL, Stewart H.	B.Eng.2	126 Lewis Ave., Westmount	WE 3034
RUSSELL, William A.	B.Sc.1	4328 Wilson Ave., Montreal	EL 6423
RUTLEDGE, A.Stirling.	B.Eng.3	5675 Sherbrooke St. West, Apt.6,Mtl.	EL 4347
RUTLEDGE, Stuart L.	Med.1	842 Pratt Avenue, Outremont	AT 3458
RYAN, M. Sheila	Arts P.	6 Sunnyside Avenue, Westmount	WE 3419
RYAN, William A.	Med.2	545 Pine Avenue West, Montreal	MA 1545
		5 Court St. Rutland, Vt.	
RYDER, Xanthe V.	B.Sc.1	617 Clarke Ave., Westmount	WE 4662
RYLEY, George M.	B.Eng.1	Douglas Hall, Montreal	BE 2885
		1191 Kildare Rd., Walkerville, Ont.	
ST. ARNAUD, George A.	B.Sc.1	3619 University St., Montreal.	
		104 Maple Ave., Shawinigan Falls, Que.	
ST. JACQUES, Jean-M.	B.Sc.1	153-3rd Ave., Ville St. Pierre	DE 7306
SAINTE-MARIE,Dorothee.	B.Sc.4	633 Dunlop St., Outremont	AT 4440
ST. PIERRE, Mathieu.	B.Sc.(Agr.)2	Macdonald College, P.Q.	Ste A. 407, 810
		Rigaud, Vaudreuil Co., P.Q.	
SABBATH, Joseph	B.Sc.4	4375 Oxford Ave., Montreal	EL 1241
SABIN, Israel M.	B.Sc.2	4824 Esplanade Ave., Montreal.	
SAFFRAN, Murray	B.Sc.2	2065 Maplewood Ave., Apt.9,Montreal	AT 0130
SAINDON, Jeanne	B.Sc.1	2058 University St., Montreal	LA 7859
		Edmundston, N.B.	
SALHANY, Loris M.	B.Com.1	Royal Victoria College, Montreal	MA 9176
		11-4th St.E., Cornwall, Ont.	
SALMAN, Mehmet T.	B.Eng.4	1361 Ducharme Ave., Outremont.	
		Ave.Vergileri Müdürlügo,Istanbul,Turkey.	
SALOMON, Beverly S.	Grad.Sch.	4891 Dornal Ave., Montreal	AT 9835
SALTIBUS, Joseph M.	Dent.4	306 Sherbrooke St.E., Montreal	BE 0959
		Castries, St. Lucia, B.W.I.	
SALZMAN, Otto	B.Sc.1	4021 Grey Ave., N.D.G.	WA 2152
SAMPATH, Martin	B.Sc.3	39 Coffee St.,San Fernando,Trinidad,B.W.I.	
SAMUELS, Curtis M.	Med.3	762 Sherbrooke St.West, Montreal	MA 0298
		517 Crochett St.,Seattle,Washington.	
SANDAR, Lothar	B.Sc.(Agr.)1	Macdonald College, Que.	Ste A. 407, 810
		36 Forden Ave., Westmount.	
SANDILANDS, Guy P.	B.Com.4	5573 Queen Mary Rd., Hampstead	EL 5735
SANSBURN, Gordon E.	B.Sc.2	620 Prince Arthur St.W., Montreal	LA 9489
		1222 Devonshire Rd., Walkerville, Ont.	
SAPERA, Sheila D.	B.Sc.2	4250 Sherbrooke St. Apt.16, Montreal	FI 8831
SARGENT, Albert E.	B.Eng.2	4675 Victoria Ave., Montreal	EL 6066
SARKAR, Noble L.	B.Sc.3	3433 Peel St., Montreal	HA 2412
		3 Madras St.,St.James,Port-of-Spain,Trinidad,BWI.	
SAUNDERS, Charles G.	B.Sc.1	216 Percival Avenue, Montreal West	DE 7048
		836 Second St., Arvida, Que.	
SAUNDERS, Ernest E.	B.Sc.1	216 Percival Avenue, Montreal West	DE 7048
SAUNDERS, Roderick C.	Grad.Sch.	1541 St. Mark St. Apt.15, Montreal	WI 9139
SAVAGE, Audrey J.	B.Sc.2	654 Lansdowne Avenue, Montreal	EL 2538
SAVAGE, Gerald	Med.1	3694 St.Famille St., Montreal	HA 0492
		Port Elgin, N.B.	
SAVORY, Paul B.	B.Sc.2	3581 Durocher St., Montreal	HA 7778
		210 E. Mound St.,Atchison, Kansas.	
SCAMMELL, Arthur R.	Grad.Sch.	3517 Hutchison St., Montreal	MA 4617
	Arts P.		
SCARLETT, Irvine	B.Eng.3	1176 Sherbrooke St.W., Montreal	MA 0650
		49-8th St., Medicine Hat, Alta.	
SCARTH, Janet A.	B.Sc.1	20 Maple Ave., St. Anne de Bellevue.	Ste A. 308
SCARTH, Robert L.	B.Eng.3	Macdonald College, Que.	Ste A. 308
SCHACHTER, Melville.	Med.1	4869 Esplande Avenue, Montreal	DO 8201
SCHACHTER, Roslyn.	B.A.3	5615 Canterbury Ave., Montreal	AT 4251
SCHECTER, David.	B.A.1	36 Joyce Avenue, Outremont	DO 7092
	Music P.		
SCHECTER, Phyllis.	B.Com.2	210 Willowdale Avenue, Montreal	AT 8724

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SCHENKER, Victor	Grad.Sch.	3425 University St.Apt.4, Montreal	HA 7472
SCHNEIDERMAN, Gertrude	Phys.Ed.P.	4683 Grosvenor Ave., Montreal	DE 7175
SCHNEIDERMAN, Zelda	Phys.Ed.P.	5207 Victoria Ave.Apt.3, Montreal	EX 2992
SCHERZER, Annalee R.	B.A.1.	4840 Victoria Ave., Montreal	DE 0530
SCHIFFMAN, Friedel	B.A.2.	4330 Westmount Ave., Westmount	WE 6477
SCHIPPER, Hirsch	B.Sc.1.	220 Bernard Ave. West, Montreal	CR 8840
SCHMALZ, William H.	Grad.Sch.	Macdonald College, P.Q.	Ste A. 407, 810
		189 Queen St. S., Kitchener, Ont.	
SCHOFIELD, Earle R.	B.Sc.1.	633 Laird Blvd., Montreal	AT 3172
SCHOLEFIELD, Betty M.A.	B.A.1.	4549 Harvard Avenue, Montreal	EL 3561
SCHOTT, Werner L.	B.A.3.	1446 Crescent Street, Montreal	PL 0558
		920 Riverside Drive, New York.	
SCHRAM, Duane A.	Med.2.	3429 Peel St., Montreal	LA 7628
		5248 15th Ave. N.E., Seattle, Wash.	
SCHREIBER, Jack	B.Sc.2.	1619 Lajoie Ave., Montreal	CA 4667
SCHRIER, Arnold	B.Sc.1.	5257 Westbury Ave., Montreal.	
SCHULLER, Max I.	B.Eng.3.	3575 Jeanne Mance St.,Apt.6,Montreal	LA 3760
SCHULTZ, Paul A.	B.Sc.1.	4035 Marcil Ave., N.D.G.	DE 7070
SCHWARTZ, David A.	B.C.L.3.	441 Strathcona Ave., Westmount	WI 7457
SCHWARTZ, John	B.C.L.3.	441 Strathcona Ave., Westmount	WI 7457
SCHWARTZ, Queenie	B.A.3.	1235 Bernard Ave.West,Apt.12,Outremont	CA 2800
SCHWARTZ, Miriam R.	Phys.Ed.	Royal Victoria College, Montreal	MA 9176
		New Waterford, Cape Breton Island, N.S.	
SCHWARTZ, Sarah	B.A.4.	1464 St. Mark St., Apt.6, Montreal	WA 5516
		2259 Girouard Avenue, Montreal.	
SCHWARTZMAN, David	B.A.2.	6014 Park Ave.,Apt.40, Montreal.	
SCOBIE, Donald H.	B.Sc.2.	Douglas Hall,Montreal	BE 2885
		969 Wellington St., Ottawa, Ont.	
SCOTT, Arlene R.	B.Arch.4.	1009 Laird Blvd., Montreal	AT 5391
SCOTT, Bertha M.	B.A.2.	367 Church Avenue, Verdun	WI 4669
SCOTT, Edith S.	B.A.4.	Royal Victoria College, Montreal	MA 9176
		2320-8 St.West, Calgary, Alta.	
SCOTT, Isabel M.	B.H.S.1.	Macdonald College, Que.	Ste A. 806, 830
		17 Monkland Avenue, Ottawa, Ont.	
SCOTT, James N.	B.Sc.1.	367 Church Avenue, Verdun, P.Q.	WI 4669
SCOTT, Joan I.	B.H.S.1.	Macdonald College, Que.	Ste A. 806, 830
		169 Somerset St., Ottawa, Ont.	
SCOTT, Leon	B.Sc.1.	Douglas Hall, Montreal	BE 2885
		P.O. Box 843, Habana, Cuba.	
SCOTT, Mary B.	B.A.4.	243 Brock St.,Montreal West	DE 8627
SCOTT, Richard A.	B.Sc.2.	611 Sydenham Avenue, Westmount	WE 4324
SCOTT, Walter B.	B.Eng.3.	3516 Lorne Avenue, Montreal	MA 3387
		Stanstead, Quebec.	
SCUDAMORE, Marion R.	Teachers'(Elem)	772 Sherbrooke St.W., Montreal	HA 6268
		Brownsburg, Que.	
SEABORNE, Margaret R.	B.A.2.	Royal Victoria College, Montreal	MA 9176
		Liverpool, Nova Scotia.	
SEATH, Anne E.	B.Sc.3.	2055 Mansfield St., Montreal, Apt.8	HA 8859
		Wales, Ont.	
SEEMAN, Violet B.	Grad.Nurses.	3547 Hutchison St., Montreal	HA 7462
		Theodore, Saskatchewan.	
SEEMUNGAL, Rupert P.	B.Sc.3.	3480 Durocher St., Montreal	MA 0787
		60 & 62 Picton St.,Port-of-Spain,Trinidad,B.W.I.	
SEGAL, Perry	B.Eng.1.	6211 Lennox Ave.Apt.C-11, Montreal	AT 3930
SEGAL, Rya	B.A.2.	3511 Addington Avenue, Montreal	EL 7423
SEGAL, William	B.Sc.4.	1577 Van Horne Ave.,Apt.4, Montreal	DO 1987
SEIFERLING, Agatha E.	Grad.Nurses.	772 Sherbrooke St.West, Montreal	HA 6268
		Vibank, Sask.	
SEIGLEY, Esther	Arts P.	4635 St.Catherine Rd., Montreal	AT 4192
SELECHONEK, Hyman	B.Sc.4.	5611 Beaminster Place, Montreal	AT 7031
SENECAL, Michel P.	Med.3.	5346 Brodeur Avenue, N.D.G.	DE 8385
SENIOR, Frank	Dent.2.	3529 University Street, Montreal	HA 2676
		12 Sackville St., Port-of-Spain, B.W.I.	
SEWARD, Mildred E.	Teachers'(Elem).	772 Sherbrooke St.W., Montreal	HA 6268
		Glenelm, Que.	
SEWELL, Geoffrey R.M.	B.A.3.	3851 University St., Montreal	BE 2885
		Fort Hill, Chester, Conn.	
SEYWERD, Henry	Grad.School.	1441 Drummond St., Montreal	MA 4171
SHACTER, Manuel	B.A.3.	4865 Queen Mary Road, Apt.18, Montreal	AT 9273
SHANNON, Patrick C.	B.Com.1.	343 Clarke Avenue, Westmount	FI 6642

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

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SHAPIRO, Bernard J.	Med.3	5394a Park Avenue, Montreal.	
SHAPIRO, David R.	Med.1	215 St.Joseph Blvd.W., Montreal	CR 0412
SHAPIRO, Stanley	B.Sc.3	5394a Park Avenue, Montreal.	
SHARE, Willie	Music P.	71 St. Joseph Blvd.W., Montreal	CR 6943
SHAVER, Wilbur C.	B.Sc.1	5909 25th Avenue, Rosemount.	
SHATAN, Hyman C.F.	B.Sc.3	253 Villeneuve St.W., Montreal	DO 3139
SHAW, Joanne	Phys.Ed.2	625 Victoria Avenue, Westmount	EL 2057
SHAW, Joan	Music	3164 Westmount Boulevard, Westmount	FI 8054
SHAW, Janet L.	B.Arch.1	3164 Westmount Boulevard, Westmount	FI 8054
SHAW, Miriam E.	B.Com.1	Royal Victoria College, Montreal	MA 9176
		14 Hemlock Ave., Shawinigan Falls, Que.	
SHEAFFER, Warren A.	B.Eng.3	5057 St.Catherine St.E., Montreal.	
SHEARMAN, M. Frances	Agr.4	Macdonald College, Que.	Ste A. 806, 830
		St. Eustache, Que.	
SHECTER, Joseph	B.C.L.1	3767 Marlowe Avenue, Montreal	WA 6748
SHEINBERG, Sydney	B.Eng.4	4362 Laval Avenue, Montreal	HA 4576
SHELDON, John R.C.	B.Eng.1	1058 Sun Life Building, Montreal.	
		c/o Dr. J.S. Bates, Chambly Basin, Que.	C. 175
SHEPHERD, William R.	B.Sc.1	4373 Madison Avenue, Montreal	EL 8087
SHERMAN, Bernard N.	B.Eng.1	865 Champagneur Avenue, Outremont.	
SHIFFMAN, Isidore M.	B.Eng.1	205 Villeneuve St.W., Montreal	CA 9122
SHIMO-TAKAHARA, George	Med.2	629 Prince Arthur St.W., Montreal	MA 0739
		1245 W. 10th St., Vancouver, B.C.	
SHINE, Tamar M.	B.A.1	446 Lansdowne Ave., Westmount	DE 3753
SHKLAR, Gerald	B.Sc.1	512 Champagneur Ave., Outremont	CA 5042
SHKURNIK, Harry R.	B.Eng.1	211 Fairmount St.W.Apt.5, Montreal	CA 1254
SHOORE, Jack	Arts P.	905 Rockland Ave.Apt.3, Montreal	DO 8594
SHORT, (McNiece) L.	Lib.School	4197 Wilson Avenue, Montreal	DE 9814
SHOULTS, Arthur M.	Med.1	495 Prince Arthur St.W., Montreal	MA 3983
		1036 McMillan Ave., Winnipeg, Man.	
SHUGAR, Joseph L.	Med.4	2778 St.Catherine Rd., Outremont	AT 2847
SHULAMN, Irwin W.	B.Sc.1	487 Grosvenor Ave., Westmount	DE 2714
SHUTER, John H.	B.Com.1	1600 Pine Ave.W., Montreal	FI 5367
SIDLER, Joseph	B.Sc.1	927 Pratt Avenue, Outremont	AT 0826
SIDORCHUK, Mary	B.Com.4	3726 Laval Avenue, Montreal	MA 9721
		22 Carleton St., Cornwall, Ont.	
SIEGERMAN, Norman P.	B.Com.1	5008 Mira Road, Montreal	EL 2149
SILVER, Archie	Med.1	728 Davaar Road, Outremont	CR 9869
SILVER, Katherine	B.A.2	5084 Cote St.Antoine Road, Montreal	EL 8854
SILVER, Sidney	Dent.3	5265 St.Urbain St., Montreal	CR 3508
SILVERMAN, Albert J.	B.Sc.1	5327 Queen Mary Road, Montreal	WA 1304
SILVERMAN, Seymour B.	Med.2	3511 Vendome Avenue, Montreal	EL 8422
SIM, Harry Y.	B.Arch.2	151 Sherbrooke St.W., Montreal	HA 2880
		95 Main Street, Hull, Que.	
SIMARD, Jean	Arts P.	775 Lexington Avenue, Westmount	DE 2984
SIMARD, Pierre	Agr.Dip.1	Macdonald College, Que.	Ste A. 407, 810
		Frelighsburg, Que.	
SIMARD, Thomas	Grad.School	1215 Drummond St., Apt.24, Montreal	HA 7333
SIMONVITCH, Louis	Grad.School	727a De L'Epee Ave., Outremont	DO 2370
SIMMS, Edith M.	Grad.Nurses	Western Division, Montreal General Hospital, Montreal	WI 3121 Lo.300
		627 Union Street, Fredericton, N.B.	
SIMON, Beatrice V.	B.A.4	5600 Decelles Ave., Apt.12, Montreal	AT 6571
SIMPSON, Lorna M.	B.A.3	1573 Conora Rd., Town of Mount Royal	EX 1305
SINANAN, Kenneth	Dent.3	3426 McTavish Street, Montreal.	
		San Fernando, Trinidad, B.W.I.	
SINCLAIR, Robert Lee.	B.Com.3	4855 Cote St. Luc Rd., Montreal	EL 3178
SINGER, Arnold A.	B.Com.1	4904 Dornal Avenue, Montreal	EX 1589
SIRKEN, Irving A.	Grad.School	4597 Clarke Street, Montreal	PL 1508
SKELTON, John P.	B.Eng.1	5 Redpath Row, Montreal	FI 9461
SKUTEZKY, Louise M.	B.A.3	3980 Cote des Neiges Rd., Apt.A54, Mtl.	FI 4153
SLATER, Clare M.	Agr.3	Macdonald College, Que.	Ste A.806, 830
		Dundas Highway, Oakville, Ont.	
SLAVOUSKI, Zelda R.	B.A.2	3852 Marlowe Avenue, Montreal	WA 4171
SLOANE, Irving W.	Dent.4	936 Pratt Avenue, Outremont.	
SLOAT, Annie P.	Grad.School	193 Balsam Ave.S., Hamilton, Ont.	
SMALL, Evelyn R.	B.A.1	6010 Hutchison Avenue, Outremont	DO 1978

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SMALL, Melvin H.	Dent.1	3434 McTavish St., Montreal Burlington, Vermont.	PL 6773
SMART, G.M. Russell	Grad.Sch	4503 Old Orchard Ave., Montreal	EL 5049
SMART, Hugh R.G.	B.A.3	36-54th Ave., Lachine, Que.	978-J
SMEDLEY, Florence G.	Grad.Sch	351 Mercille Ave., St.Lambert	Zone 7-316
SMEDLEY, Winnifred M.	B.A.2	351 Mercille Ave., St.Lambert	Zone 7-316
SMELTZER, Gerald	Agr.3	Macdonald College, Que. Upper Vaughans, Hants Co., N.S.	Ste A. 407, 810
SMILEY, Helen K.	B.A.1	284 Edison Ave., St.Lambert	Zone 7-228
SMILEY, Robert M.	B.Eng.4	284 Edison Ave., St.Lambert	Zone 7-228
SMITH, Barbara A.	B.A.2	Royal Victoria College, Montreal 454 Laurier Ave.E., Ottawa, Ont.	MA 9176
SMITH, Barbara A.	B.Com.1	4330 Sherbrooke St.W., Montreal	FI 7806
SMITH, Donald M.	B.Sc.1	3423 Hingston Avenue, Montreal	EL 0793
SMITH, Frank D.	Med.2	48 Ste Anne St.,Ste.Anne de Bellevue	Ste A. 893
SMITH, Frances Joan	B.H.S.2	Macdonald College, Que. 391 3rd St., Collingwood, Ont.	Ste A. 806, 830
SMITH, Frances M.	B.Sc.3	Royal Victoria College, Montreal Hawkesbury, Ont.	MA 9176
SMITH, John	B.Sc.1	629 Prince Arthur St.West, Montreal Box 196, Richmond, Quebec.	MA 0739
SMITH, Henry L.	Med.4	3606 Marlowe Ave., Montreal	DE 7574
SMITH, Kenneth G.	B.Sc.2	4681 Victoria Ave.,Montreal	EL 3774
SMITH, Kenneth L.	B.Eng.4	4451 Melrose Ave., N.D.G.	
SMITH, Lawrence A.	B.Sc.3	1500 St.Mark St., Montreal	WE 5437
SMITH, Melvin	B.Eng.2	842 Dollard St., Montreal	CA 6997
SMITH, Richard E.	B.Sc.2	1015 Sherbrooke St.W., Montreal 54 Ploermel Ave., Quebec, Que.	MA 0934
SMITH, Roger W.	B.Eng.1	4748 Verdun Avenue, Verdun	YO 2753
SMITH, Thomas J.	Med.3	762 Sherbrooke St. W., Montreal 95 Belknap St., Dover, N.H.	LA 2598
SMITH, Wayne A.	B.A.1	9525 LaSalle Blvd., Ville la Salle.	
SNELGROVE, Laurence H.	B.Eng.1	2063 Stanley St., Montreal 337 Seventh St.E.,Cornwall, Ont.	MA 9038
SODEN, Carol	Music P.	220 Stanstead Avenue, Montreal	AT 3812
SOLER, Roberto	B.Sc.1	Douglas Hall, Montreal 27 Calle Oriente 11,San Salvador,El Salvador.	BE 2885
SOLKIN, Wolf W.	B.A.4	1420 Bernard W.,Apt.6, Montreal	CR 3375
SOLOMON, David	B.Sc.1	5060 Notre Dame de Grace Ave.,Montreal	DE 2365
SOLOMON, Herbert	B.Sc.2	600 Grosvenor Ave., Montreal	DE 5650
SOLOMON, Mildred	Music	600 Grosvenor Ave., Montreal	DE 5650
SOLOMON, Phyllis S.	B.H.S.1	Macdonald College, Que. 4223 Esplanade Ave., Montreal.	Ste A. 806, 830
SOMERVILLE, Joan	B.A.2	631 Carleton Ave., Montreal	WE 1504
SOPER, Allan John	B.Com.2	68 Forden Crescent, Westmount	WE 5906
SOUCY, Louis A.	B.Sc.3	3514 Hutchison St., Montreal Gravelbourg, Sask.	HA 4045
SOUCY, Marcel	B.Sc.3	3514 Hutchison St., Montreal Gravelbourg, Sask.	HA 4045
SOWDEN, Frederick J.	Grad.Sch	Macdonald College, Que. Port Hope, Ont. R.R.1.	Ste A. 407, 810
SPARKS, Vivian M.	B.H.S.1	Macdonald College, Que. 295 Gloucester St., Ottawa, Ont.	Ste A. 806, 830
SPEAR, Ivan M.	Med.1	1122 Sherbrooke West, Montreal. 44 Cottage Farms Rd.,Cape Elizabeth,Maine.	
SPEARMAN, Don		2 Grove Park, Westmount	FI 1217
SPECTOR, Elika	Arts P.	4071 Grey Ave., Montreal	EL 2252
SPEID, Lorna M.	B.H.S.3	Macdonald College, Que. "Uplands" Lennoxville, Que.	Ste A. 806, 830
SPENCE, Dorothy	B.Sc.4	7094 Boyer St., Montreal	DO 6533
SPENCER, Benjamin D.	Med.4	640 Prince Arthur St.W.,Apt.4,Montreal 1718 Queens Road, Charlotte, N.C.	HA 2335
SPENCER, Colin A.	B.Eng.2	5101 Western Ave., Montreal	DE 3610
SPIEGEL, Edward	B.Eng.1	680 Dollard Blvd., Outremont	DO 6082
SPILLER, Ernest R.	B.A.2	4066 Melrose Ave., Montreal	DE 9622

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

SPRINGER, George S.	B.Sc.2	672 McEachran Ave., Montreal	CA 5427
SPRINGSTEEN, Alice L.	B.Sc.2	Royal Victoria College, Montreal	MA 9176
		2287 Victoria Avenue, Windsor, Ont.	
SPURRELL, Althea L.	B.A.3	5348 Bannantyne Avenue, Verdun	YO 2962
STABLER, Ernest	Grad.School	3777 Oxford Avenue, Montreal	EL 6875
STACEY, Cooper H.	B.Sc.4	Douglas Hall, Montreal	BE 2885
		762 Randolph Avenue, Windsor, Ont.	
STACHIEWICZ, Bogdon.	B.Eng.1	Douglas Hall, Montreal	BE 2885
		Warsaw, Poland.	
STACHIEWICZ, Julius.	B.Eng.1	Douglas Hall, Montreal	BE 2885
		Warsaw, Poland.	
STAFFORD, Lloyd R.	B.Sc.2	Douglas Hall, Montreal	BE 2885
		Coaticook, Que.	
STAIRS, Colin M.	B.Sc.1	841 Lexington Ave., Montreal	EL 5007
STALKER, Alexander.	B.C.L.2	636 Lansdowne Avenue, Westmount	EL 0615
STALKER, Archibald.	B.A.2	636 Lansdowne Avenue, Westmount	EL 0615
STANDISH, Christopher.	Med.2	Douglas Hall, Montreal	BE 2885
		3183 W. 5th Avenue, Vancouver, B.C.	
STANFORD, Ronald L.	Med.4	319 Redfern Avenue, Westmount	FI 1553
STANIER, Diana	B.Sc.4	3637 Oxenden Ave., Montreal	MA 8729
		Cobble Hill, V.I., B.C.	
STAR, Solomon	B.Sc.1	705 Querbes Ave., Apt.1, Montreal	CA 5482
STARK, Norman	Agr.2	Macdonald College, P.Q.	Ste A. 407, 810
		1125 Bernard Ave., Outremont.	
STARR, Harry	Med.4	3669 Henri Julien St., Montreal	HA 9064
STARR, Isadore	B.A.3	4664 Colonial Avenue, Montreal.	
START, Edward R.	Teachers'(Elem)	17 Lamarche St.,Ste Anne de Bellevue,P.Q.	
STEACIE, Diana J.	B.A.1	Royal Victoria College, Montreal	MA 9176
		604 Driveway, Ottawa, Ont.	
STEE, Betty.	B.Com.3	Royal Victoria College, Montreal	MA 9176
		404 Glencairn Avenue, Toronto, Ont.	
STEELE, Barbara N.	B.A.1	65 Forden Avenue, Westmount	WE 4454
STEEN, Allan John.	Agr.4	Macdonald College, Que.	Ste A. 407, 810
		Pakenham, Ont.	
STEEN, Frank G.	B.Sc.2	4632 Oxford Ave., Montreal	WA 2602
STEFFEN, Elizabeth A.	Med.1	3417 University St., Montreal	PL 2406
		Antigo, Wisconsin.	
STEIN, Benjamin.	Dent.1	5608 Jeanne Mance St., Montreal	CR 9035
STEIN, Miriam Z.	Teachers'(Inter)	4628 Hutchison St., Montreal	CR 9161
STEMMERMANN, Grant N.	Med.4	3426 McTavish St., Montreal	LA 9894
		138 Palisade Avenue, Bogota, N.J.	
STEPHANSSON, Arnold E.	B.Eng.1	3426 McTavish St., Montreal	LA 9894
		Flin Flon, Man.	
STEPHEN, Freda	B.Sc.3	4272 Hampton Avenue, Montreal	EL 1849
STEPHENS, Joan F.	B.A.4	4 Richelieu Place, Montreal	LA 1566
SYEPHENSON, Jane	Grad.Nurses	772 Sherbrooke St.W., Montreal	HA 6268
		Maugerville, N.B.	
STERLIN, Martin R.	B.Sc.1	4703 Decarie Blvd., Montreal	WA 5726
STERN, Herbert	Grad.School	4895 Henri Julien Ave., Montreal	LA 5501
STERN, Lloyd G.	Med.4	376 Redfern Avenue, Westmount	FI 1048
STERNFIELD, Solly L.	B.Eng.1	242 St. Joseph Blvd., Montreal	CR 6779
STEVENS, Catherine E.	B.Sc.1	3500 Atwater Ave.,Apt.203, Montreal	FI 1979
STEVENS, David	B.Sc.1	144 Strathearn Ave., Montreal West	WA 2190
STEVENS, Harold	B.A.4	1477 Closse St., Apt.3, Montreal.	
		Newfoundland.	
STEVENS, Margaret H.	Arts P	4241 Hingston Avenue, Montreal	DE 2116
STEVENS, Thelma V.	Grad.School	Royal Victoria College, Montreal	MA 9176
		Kingston, Kings Co. Nova Scotia.	
STEVENS, William.	Music P	4241 Hingston Avenue, Montreal	DE 2116
STEVENSON, Ian P.	Med.3	2039 McGill College Ave.,Apt.35,Montreal.	
STEVENSON, James A.F.	Grad.School	Royal Victoria Hospital, Montreal	PL 1251
STEWART, Alexander P.	Teachers'(Inter)	5876 Notre Dame St.E., Montreal	CL 7447
STEWART, Elizabeth G.	B.H.S.4	Macdonald College, Que.	Ste A. 806, 830
		Pendarvis, Cadboro Bay, Victoria, B.C.	
STEWART, James D.	Med.1	101 Dobie Ave., Town of Mount Royal	AT 0845
STEWART, H. Douglas.	Theol.3	3485 McTavish St., Montreal	PL 1649
		Seaforth, Ont.	
STEWART, James J.	B.Eng.4	5876 Notre Dame St.E., Montreal	CL 7447
STEWART, Norah A.	B.Sc.2	4810 Wilson Avenue, Montreal	WA 1263

NAME	FACULTY AND YEAR	ADDRESS	TEL.NO.

Where two addresses are given, the second is the home address.

STEWART, Robert C.T.	B.Eng.1	497 Lansdowne Avenue, Westmount	WI 2968
STEWART, Ronald	B.Sc.2	2930 Fendall Avenue, Montreal	AT 6373
STEWART, William L.	B.Eng.2	5366 Monkland Avenue, Montreal	EL 3772
STEWART, William T.	B.C.L.3	32 Edgehill Road, Westmount	WE 5965
STOBER, Julius	B.Eng.1	15 Ainslie Avenue, Outremont	CA 7302
STOBO, William E.	B.Eng.4	50 St.Louis Road, Quebec City.	
STOLLMEYER, John.	Med.2	545 Pine Ave. W., Montreal	MA 1545
		31 Maraval Rd., Port-of-Spain, Trinidad, B.W.I.	
STONEHEWER, John.	B.Eng.1	3578 Shuter St., Apt.7, Montreal	MA 5089
		1054 Fackland Rd., Victoria, B.C.	
STOREY, Eric W.	B.Sc.2	3485 McTavish St., Montreal	FI 1649
		George St.,St.Michael 15, Barbados, B.W.I.	
STOREY, Winnifred F.	B.Sc.1	781 Hartland Avenue, Outremont	AT 3397
STOUGHTON, Judith A.W.	B.Sc.2	Royal Victoria College, Montreal	MA 9176
		26 Westland Avenue, West Hartford, Conn.	
STOVEL, Margaret E.	B.H.S.1	Macdonald College, Que.	Ste A. 806, 830
		90 Waterloo St., Winnipeg, Man.	
STRATFORD, Joseph G.	B.Sc.3	Douglas Hall, Montreal	BE 2885
		77 Charlotte St., Brantford, Ont.	
STRATTON, Florence A.	Grad.Nurses	3547 Hutchison St., Montreal	HA 7462
		604 Simcoe St., Winnipeg, Man.	
STRIM, Adrian D.	Med.3	3483 Peel Street, Montreal	LA 0643
		Landa, North Dakota.	
STRONACH, Marjorie.	B.A.1	5635 Dunmore Ave., Montreal	AT 1896
STRONG, Norval M.	B.Eng.4	499 Elm Avenue, Westmount	FI 9320
		Haileybury, Ont.	
STRONG, William.	B.Sc.1	496 Wood Avenue, Montreal	FI 1281
STUART, James R.	Med.1	4355 Westmount Avenue, Westmount	WE 2595
STUART, Kenneth L.	B.A.3	3485 McTavish St., Montreal	PL 1649
		Broughderg,Blacklock,St.Michael, Barbados, B.W.I.	
STURDY, Donald D.	Med.2	762 Sherbrooke St.W., Montreal	LA 2598
		1975 W. 17th Avenue, Vancouver, B.C.	
STYM, Peter	B.Eng.1	3561 Lorne Avenue, Montreal	HA 9541
		Box 452, Rouyn, Que.	
SUMKA, Ann	Grad.Nurses	772 Sherbrooke St., Montreal	HA 6268
		575 St. Johns Ave., Winnipeg, Man.	
SUMMERBY, John H.	B.Sc.3	Macdonald College, P.Q.	Ste A. 733
SUMMERSKILL, John H.	B.A.2	3789 Royal Avenue, Montreal	EL 1378
SUMNER, Paula	B.A.3	Ford Hotel, Montreal.	
SUMNER, Robert H.	Med.2	545 Pine Avenue, W., Montreal	MA 1545
SURCHIN, Hyman	Med.2	5100 Hutchison St., Apt.7, Montreal	CR 4259
SUTHERLAND, John B.	B.Sc.2	3445 Ontario Avenue, Montreal	LA 6843
SVENNINGSON, Wayne	B.Sc.1	3491 Stanley St., Montreal	MA 5946
SWAINE, Frederick	B.Sc.1	505 Claremont Avenue, Westmount	EL 9618
SWANSON, Arnold L.	Med.3	3426 McTavish Street, Montreal	LA 9894
		958 Bute St., Vancouver, B.C.	
SWOGER, Alvin G.	B.Sc.1	3553 Evelyn St., Verdun.	
		1 Bellevue St., Magog, Que.	
SWITHINBANK, Jane.	B.Sc.2	Royal Victoria College, Montreal	MA 9176
		Redcroft, Loose, Maidstone, Kent, England.	
SYLVESTER, Octavia.	B.Sc.3	3618 Oxenden Avenue, Montreal	MA 7965
TABOR, Edward	Med.3	421 Prince Arthur St.W., Montreal	MA 3087
		320 Beacon St., Lowell, Mass., U.S.A.	
TAGGART, Marjorie J.	B.H.S.1	Macdonald College, Que.	Ste A. 806, 830
		376 Hinton Avenue, Ottawa.	
TAGIURI, Renato	B.Sc.2	Loyola College,7141 Sherbrooke St., Montreal	DE 0022
TAIT, Leslie	B.Sc.2	4034 Oxford Avenue, Montreal	EL 5630
TAKESHIGE, Maurice Y.	B.Eng.1	3649 Park Avenue, Montreal	LA 8652
TALBOT, Helen P.	Grad.Nurses	3495 Simpson St., Montreal	FI 1423
		High River, Alberta.	
TALVENHEIMO, Gerhardt.	B.Sc.1	3609 University St., Montreal	LA 6307
		12a Montcalm St., Kenogami, Que.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

TAMMARO, Mario	B.Sc.1	6583 St. André Street, Montreal.	
TANNENBAUM, Isaac	Med.2	5303 Esplanade Ave., Montreal	CR 2614
TANNER, Charles C.	B.Com.2	Douglas Hall, Montreal	BE 2885
		Richmond, Que.	
TAPLEY, Eleanor J.	B.Sc.2	4831 Mira Rd., Montreal	AT 9048
TARSHIS, Laurence J.	B.Sc.1	21 Ramezay Road, Westmount	FI 2990
TATE, Christina E.E.	B.A.2	484 Strathcona Avenue, Westmount	FI 3315
TATE, Parr A.	B.Sc.1	484 Strathcona Avenue, Westmount	FI 3315
TAWSE, Gerald E.	B.Com.1	5659 Terrebonne Avenue, Montreal	EL 1361
TAYLOR, Ernest I.	B.Com.1	42 Ballantyne Avenue, Montreal West	EL 2797
TAYLOR, Frank G.	B.Sc.1	69 Wicksteed Ave., Town of Mt.Royal	AT 9096
TAYLOR, Graham C.	Med.3	136 Vivian Ave., Town of Mt.Royal	AT 2907
TAYLOR, Nancy C.	B.A.3	608 Grosvenor Ave., Westmount	EL 3463
TAYLOR, Ruth J.	B.Sc.1	803 Upper Belmont Ave., Westmount	DE 0560
TAYLOR, William A.	Med.1	Douglas Hall, Montreal	BE 2885
		1909 Verdun Avenue, Walkerville, Ont.	
TAYLOR-Stoll, Dorothy.	B.A.4	4706 Verdun Avenue, Verdun	YO 5551
TEES, Miriam H.	B.A.3	33 Forden Avenue, Westmount	WE 4192
TEMKIN, Blossom B.	B.A.2	502 Outremont Ave., Outremont	TA 1708
TENCER, Elaine C.	B.A.1	5618 Notre Dame De Grace Ave., Montreal	EL 5484
TEOLIS, Giovanni G.	B.Sc.3	6555 St.Andre St., Montreal	TA 1904
TEPNER, Arnold	B.A.3	763 Davaar Avenue, Outremont	CA 4023
TEPNER, Sylvia	B.A.2	763 Davaar Avenue, Outremont	CA 4023
TETRAULT, Lucille	Arts P.	4819 Verdun Avenue, Verdun	YO 1588
TETRAULT, Robert	B.Eng.4	1587 MacGregor St., Montreal.	
THACKRAY, James C.B.	B.Sc.3	3454 Holton Avenue, Montreal	WE 4492
THEAULT, Maurice A.	B.Eng.3	3156 Tremblay St., Montreal	AT 6046
THIBAUDEAU, George E.	B.Arch.2	639 Roslyn Avenue, Westmount	DE 7368
		St.George E., Que.	
THOMAS, Donald R.	Agr.Dip.1	Macdonald College, Que.	Ste A. 407, 810
		817 Wilder Avenue, Outremont.	
THOMAS, Gordon W.	Med.3	3445 Peel Street, Montreal	HA 9462
		3814 Old Orchard Avenue, Montreal.	
THOMAS, Leonidas M.	B.Sc.1	795 Lusignan Street, Montreal	FI 7017
		Questelles, St. Vincent, B.W.I.	
THOMAS, Robert C.	Med.3	1620 St. Antoine St., Montreal	WI 9242
		18 Monte Vista, Vallejo, Calif.	
THOMPSON, Alan G.	Med.4	4481 Montrose Avenue, Montreal	WE 5000
THOMPSON, Alfred W.H.	B.Eng.2	1056 Melrose Avenue, Verdun	YO 6675
THOMPSON, A. Lloyd.	Grad.School	3445 Peel St., Montreal	HA 9462
		Lemesurier, Que.	
THOMPSON, Barbara J.	B.H.S.2	Macdonald College, Que.	Ste A. 806, 830
		107 Quebec St., Sherbrooke, Que.	
THOMPSON, George H.	B.Sc.1	Central Y.M.C.A. 1441 Drummond St., Montreal	MA 4171
		Danville, P.Q.	
THOMPSON, Herbert C.	B.Com.1	1216 St. Matthew St., Montreal	WI 8080
		1007 Collinson St., Victoria, B.C.	
THOMPSON, James C.	B.Com.1	3940 Cote des Neiges Rd., Montreal	FI 9293
THOMPSON, John R.	Med.4	3460 Durocher St., Montreal	HA 0476
		745 2nd Ave., Berlin, N.H.	
THOMPSON, Mary E.	B.A.2	359 Wiseman Avenue, Outremont	DO 6440
THOMPSON, William E.	B.Sc.1	24 Finchley Rd., Hampstead	EL 2976
THOMSON, Allan	B.A.3	4862 La Fontaine St. E., Montreal	CL 4719
THOMSON, Henry V.	B.Sc.1	5509 Verdun Avenue, Verdun, Que.	YO 4461
		166 First Avenue, Noranda, Que.	
THORBURN, John D.	B.Sc.1	207 Carlyle Avenue, Montreal	AT 2845
THORN, Donald S.	Med.1	3609 University St., Montreal	LA 6307
		1361 Hamilton St. N.W., Washington, D.C.	
THORNDYKE, Gordon.	Agr.P.	Macdonald College, Que.	Ste A. 407, 810
		152 Wentworth Avenue, Cincinnati, Ohio.	
THORNHILL, Herbert S.	B.A.3	172 Edgehill Road, Westmount	WE 6987
THORNTON, Nigel	Arts P.	3581 University St., Montreal	MA 3842
		Fort Hill, Chester, Conn.	
THROOP, W. Allan	B.Sc.1	3647 University Street, Montreal	MA 2806
		Frankville, Ont.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

TIDMARSH, Williwm W.	Med.3	Douglas Hall, Montreal	BE 2885
		6 Richmond St., Charlottetown, P.E.I.	
TILDEN, Samuel F.	B.Eng.2	40 Oakland Avenue, Montreal	DE 4343
TILLEY, Donald E.	B.A.1	Douglas Hall, Montreal	BE 2885
		Mahwah, New Jersey.	
TIMMINS, Gloria	Arts P.	14 Sunnyside Avenue, Westmount	FI 1919
TIMMINS, Jean E.	B.A.1	1122 Laird Blvd., Montreal	AT 3395
TIMMINS, Leila A.	B.A.1	475 Roslyn Avenue, Westmount.	
TITTENSOR, Gordon	B.A.1	25 Hillcrest Avenue, Montreal West	DE 2422
TOLMATCH, Miriam	Teachers'(Inter)	31 St.Catherine Rd., Outremont	DO 4755
TOMASELLI, Joseph F.	Med.2	3552 Hutchison St., Montreal	PL 2464
		511 Plymouth Ave. N., Rochester, N.Y.	
TOMIUK, I.	Arts P.	2268 Prud'homme Ave., Montreal	EL 5933
		131 Blvd. LeBelle,L'Abord-a-Plouffe, Que.	
TOMY, Joseph	B.A.2	6889 St. Hubert St., Montreal	CA 7745
TORRANCE, Nancy R.	B.A.1	206 Percival Ave.,'Montreal West	EL 5354
TORRENCE, William H.	Med.1	3618 Oxenden Ave., Montreal	MA 7965
		2700 South Avenue, Syracuse, N.Y.	
TOUPIN, Marcel	B.Sc.1	5270 Notre Dame de Grace Ave.,Montreal	WA 3193
TOWLE, Allistair M.	B.Eng.2	302 Cote de Liesse Rd., Town of Mt.Royal	AT 2563
TOWNEND, Arthur	B.Sc.1	3462 St. Famille St., Montreal	HA 1719
		Union Hill P.O. Jamaica, B.W.I.	
TOWNSEND, Michael W.	B.Com.2	22 Arlington Ave., Westmount	WE 2970
TOWNSON, Arthur	B.Sc.1	161-17th Avenue, Lachine	Lach. 405M
TRACEY, Gordon E.	B.Sc.1	135 Third Avenue, Verdun	YO 6611
		D.M.O's Quarters, Couva, Trinidad,B.W.I.	
TRAPP, Margaret A.	B.H.S.1	Macdonald College, Que.	Ste A. 806, 830
		Edson, Alta.	
TREGUNNO, Norman B.	Agr.1	Macdonald College, Que.	Ste A. 407, 810
		2 Connaught Ave., Halifax, N.S.	
TREMBLAY, Leo-Paul	Grad.Sch.	1545 Mackay St., Montreal	HA 2039
		165½ - 4th Ave., Quebec, Que.	
TREVIL, Stella H.	Arts P.	44 Academy Rd.Apt.12, Westmount	FI 7291
TRIGG, Eric A.	B.Com.3	2176 Paris St., Montreal.	
TROMBITAS, Eleanor	Grad.Sch.	3660 Lorne Crescent	MA 3190
		11672 Montana St.W., Los Angeles, Calif.	
TROSSMAN, Marshall	B.A.4	12 Cambrai Ave., Outremont	AT 3224
TROTTIER, Bernard	Grad.Sch.	8777 Routhier St., Montreal	DU 1262
TROYER, J. Gordon	Theol.2	3485 McTavish St., Montreal	PL 1649
		Hemmingford, Que.	
TRUDEAU, Pierre	B.Com.4	37 Sunset Avenue, Montreal	AT 9786
TRUDEAU, S. Elliott	Arts P.	84 McCulloch Avenue, Outremont	CA 3665
TUCKER, G. Ewing	B.Sc.3	3525 University St., Montreal	MA 4352
		Palmetto Grove, Flatts, Bermuda.	
TULLY, Donald W.	B.Sc.4	1441 Drummond St., Montreal	MA 4171
		Athelstan, Quebec.	
TULLY, James A.	B.Eng.3	1441 Drummond St., Montreal	MA 4171
		Athelstan, Quebec.	
TUNSTILL, Douglas	Lib.Sch.	4131 Oxford Ave., Montreal.	
		523 Sprague St., Winnipeg, Man.	
TUPANIANIN, Ivanka	B.C.L.2	250 Lansdowne Ave.Apt.9, Westmount	WE 5125
		5a Andre Nicolisha, Belgrade, Yugoslavia	
TUPANIANIN, Zorka	B.A.3	250 Lansdowne Avenue, Westmount	WE 5125
TURNBULL, Dorothy	B.Sc.1	4941 Macdonald Ave., Montreal	WA 2166
TURNBULL, Lily M.	Grad.Nurses	772 Sherbrooke St.W., Montreal	HA 6268
		1107 13th St., Saskatoon, Sask.	
TURNBULL, William	Med.3	3460 Durocher St., Montreal	HA 5731
		635-20th St., Santa Monica, Calif.	
TURNER, E. Joan	B.A.1	4957 Earnscliffe Avenue, Montreal	EL 3182
TURNER, Robert	Music	82 Strathearn Avenue, Montreal	DE 8112
TURVILLE, Dorothy E.	B.A.1	42 Devon Ave., Westmount	EL 4636
TYHURST, James S.	Med.2	Douglas Hall, Montreal	BE 2885
		799 Linkleas Ave., Victoria, B.C.	
TYLER, Alice P.	B.A.1	588 Lansdowne Avenue, Westmount	DE 7565
TYNER, Elsie L.	Teachers'(Inter)	772 Sherbrooke St.W., Montreal	HA 6268
		345 Mercille Ave., St.Lambert.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

TYRER, Frances H.	B.Sc.4.	237 Strathearn Ave., Montreal.	DE 7925
TYRWHITT-DRAKE, M.L.	B.A.2.	3605 University St., Montreal. 1601 Belmont Ave., Victoria, B.C.	MA 3101
UFFORD, John R.	B.Eng.4.	3592 University St., Montreal. 152 51st Ave., Dixie, Que.	PL 2435
UMANSKI, Tamara.	B.Sc.2.	460 Grosvenor Ave., Westmount.	DE 2239
UNDERHILL, Beryl O.	B.A.1.	Royal Victoria College, Montreal. 31 Grace St., Lachute, Que.	MA 9176
UNSWORTH, Thomas E.	Agr.1.	Macdonald College, Que. 938 Wolfe Ave., Three Rivers, Que.	Ste A. 407, 810
URAN, Nejdet O.	B.Eng.4.	3583 Hutchison St., Montreal. Istanbul, Turkey.	LA 6628
URQUHART, William H.E.	B.Sc.1.	3545 University St., Montreal. 699 Second Ave.W., Owen Sound, Ont.	HA 0900
VANDERBILT, John W.	Med.1.	3628 Park Ave., Montreal. 50 Prospect Ave., Plattsburg, N.Y.	HA 7376
VANDERLIP, Eldad C.	B.Eng.1.	92 Dorchester St.W., Montreal.	
VANDRAY, Carl W.	B.Eng.1.	3527 Lorne Ave., Montreal. Waltham, Que.	MA 1956
VAN BUREN, Steadman M.	Dent.2.	1210 Pine Ave., Montreal. 795 Third Ave., N.Troy, N.Y.	HA 0098
VAN REET, Margot.	Arts P. Grad.Sch.	2034 Peel St., Montreal.	BE 1291
VAN SCOYOC, Ann.	B.A.1.	205 Brock Ave., Montreal West.	DE 7627
VAN VLIET, William L.	B.Com.3.	3485 McTavish St., Montreal. Lacolle, Que.	PL 1649
VAN WAGNER, Charles E.	B.Eng.1.	3549 Northcliffe Ave., Montreal.	EL 5838
VAN DEN STEEN, Jose P.	B.Sc.3.	3547 University St., Montreal. Cardinal, Ont.	
VAN STRATEN, Sylvia F.	B.Sc.1.	531 Querbes Avenue, Outremont.	
VAUGHAN, Peter.	Med.3.	1321 Sherbrooke St.W., Montreal.	PL 1306
VAUTELET, Elise.	Arts P.	3488 Durocher St., Montreal.	MA 8237
VEIT, William A.	B.Sc.2.	3485 McTavish St., Montreal. Sayabec, Que.	PL 1649
VENETSKY, Pearl.	Teachers'(Inter)	6148 Hutchison St., Outremont.	CR 3017
VERNON, Leonard J.	Med.3.	620 Prince Arthur St., Montreal. 175 Central Ave., Orange, N.J.	LA 9489
VERMEEREN, Jack A.	Med.1.	3483 Peel Street, Montreal. 339 King St., Fredericton, N.B.	LA 0643
VICTOR, Arthur.	B.Sc.1.	9 Thornhill Ave., Westmount.	WE 2043
VICTOR, Hershel.	B.Com.3.	9 Thornhill Ave., Westmount.	WE 2043
VIGEANT, Joseph A.	Agr.2.	Macdonald College, Que. 313 Monkland Blvd.,St.Laurent, Que.	Ste A. 407, 810
VILLENEUVE, Ruth J.	Grad.Nurses.	1490 Fort St.Apt.5, Montreal. 125 Third St.E., Cornwall, Ont.	FI 4435
VINCENT, Frances.	Music.	215 Willowdale Avenue, Outremont.	AT 7405
VINCENT, John E.	B.Sc.2.	215 Willowdale Avenue, Outremont.	AT 7405
VINEBERG, Julius.	Music.	159 St.Joseph Blvd.W., Montreal.	CR 6130
VINEBERG, Miriam S.	B.C.L.1.	1535 Summerhill Ave.Apt.302, Montreal.	FI 1421
VINER, Bernice H.	B.A.4.	406 Pine Ave.W., Montreal.	Ha 1748
VIOLETTE, B.R. James.	Med.4.	2063 Stanley St., Montreal. 47 Douglas Ave., Saint John, N.B.	MA 9038
VIOTTI, Yolande.	B.A.1.	2350 Notre Dame St.W., Montreal.	FI 4179
VISSER, Andrew H.	Med.3.	3772 Vendome Ave., N.D.G.	DE 7892
VIVANTE, Arthur.	B.A.2.	Douglas Hall, Montreal. 2 Gordon Cottages,Duke's Lane,London,Eng.	BE 2885
VOGEL, Edward.	Agr.1.	Macdonald College, Que. 538 St. Joseph St. Lachine, Que.	Ste A. 407, 810
VOLPE, Dominic D.	B.Sc.1.	804 Brewster Ave., Montreal.	
VOSBURG, Frederic.	B.A.2.	4266 Old Orchard Ave., Montreal.	DE 8737
VOSBERG, Reina.	B.H.S.2.	Macdonald College, Que. 3597 Clarke St., Montreal.	Ste A. 806, 830

NAME FACULTY AND YEAR ADDRESS TEL. NO.

Where two addresses are given, the second is the home address.

VOYVODIC, Louis.....B.Sc.4.....Douglas Hall, Montreal.....BE 2885
P.O. Box 414, Noranda, Que.
VROOM, Alan H.....Grad.Sch.....32 Union Blvd., St. Lambert, Que....Zone 7 - 252

WADEY, Hugh F.....Agr.2.....Macdonald College, Que.....Ste A. 407, 810
4509 Kensington Ave., N.D.G.
WAELBROECK, Antoinette.B.A.3.....53 St.Catherine Rd., Outremont.....DO 2856
WAKE, Keith P.....B.Sc.1.....346 Lansdowne Avenue, Westmount.....WA 6889
WAKEMAN, Maisie R.....B.A.4.....4581 Kensington Ave., N.D.G.....DE 7918
WALCOTT, David B.....B.Sc.1.....4163 Western Ave., Montreal.....WI 2578
W.I. Barracks, St. Michael, Barbados.
WALKER, Jean M.....B.A.3.....331 Clarke Ave.Apt.8, Montreal..... WI 9645
WALKER, J. Harris.....Med.4.....5277 Waverley St., Montreal.....DO 9005
Raymond, Alta.
WALKER, Myrl B.....B.Sc.2.....Royal Victoria College, Montreal.....MA 9176
12 Maple St., Kenogami, Que.
WALKINSHAW, Peter W...B.Sc.1.....Central Y.M.C.A.,Stanley St.,Montreal...MA 4171
12 Maple St., Kenogami, P.Q.
WALLACE, Margaret.....Grad.Nurses....772 Sherbrooke St.W., Montreal.....HA 6268
Portage La Prairie, Man.
WALLEN, Victor R.....Agr.1.....Macdonald College, Que.....Ste A. 407, 810
24 Downing St., Ottawa, Ont.
WALLIS, Boris A.....Grad.Sch.....117 Irvine Ave., Montreal.....FI 3918
WALLWORK, Elizabeth...Grad.Nurses....772 Sherbrooke St.W., Montreal.....HA 6268
Taber, Alta.
WALSH, Cameron T.....Dent.4.....5154 Westbury Ave., Montreal.....EL 1615
WALSH, Carol.....B.A.2.....777 Upper Belmont Ave., Westmount.
WALSH, Edward P.....B.Eng.1.....1441 Drummond St., Montreal.....MA 4171
19 Candiar St., Quebec City.
WALSH, Ida.....B.A.4.....2 Dubé Ave., Montreal E.
WALTER, Arthur R.....B.Sc.1.....607 Victoria Ave., Westmount.....EL 2081
WALTER, Kenneth E.....B.Eng.2.....607 Victoria Ave., Westmount.....EL 2081
WALTON, Rosalie V.....B.Sc.2.....Royal Victoria College, Montreal.....MA 9176
94 Meeting St., Providence, R.I.
ZANKLYN, David I.....B.Eng.1.....3600 Atwater Ave., Montreal.....WI 9026
WARBURTON, Hugh.....B.Sc.2.....4723 Fulton Avenue,Montreal.....AT 2148
WARD, D. Bruce.....Dent.1.....5669 Cote St.Antoine Rd., Montreal.....EL 5229
WARD, Sheila A.....B.A.1.....508 Prince Albert Ave., Westmount.....EL 1950
WARD, William T.....B.Eng.1.....4655 Melrose Ave., N.D.G.....WA 3727
WARNER, Glenfield L...B.Eng.3.....935 Woodstock Ave., Montreal.
WARNOCK, Vera M.....B.H.S.2.....Macdonald College, Que.....Ste A. 806, 830
92 Manawagonish Rd., Failville, N.B.
WARREN, Virginia M....B.H.S.1.....Macdonald College, Que.....Ste A. 407, 810
22 Maple Ave., Toronto, Ont.
WASSERMANN, Charles U.B.A.2.....1610 Sherbrooke St.W., Montreal.....WI 0063
WATANABE, Satoru.....Med.2.....629 Prince Arthur St.W.,Montreal.....MA 0739
325 Jackson Ave., Vancouver, B.C.
WATERMAN, Ethel S.....B.Sc.4.....795 Davaar Ave., Outremont.....DO 8122
WATERMAN, Matthew J...Dent.3.....542 Prince Arthur St.W., Montreal.....LA 7009
2912 W.31st St.Vancouver, B.C.
WATEROUS, Charlotte...B.Sc.4.....Royal Victoria College.....MA 9176
36 William St., Brantford, Ont.
WATERSTON,Douglas L...Agr.2.....Macdonald College, Que.....Ste A. 407, 810
435 Metcalfe Ave., Westmount.
WATERSTON,Joan C.....B.A.4.....435 Metcalfe Ave., Westmount.....WE 4565
WATSON, Beryl J.....B.Sc.2.....Royal Victoria College, Montreal.....MA 9176
Searles Factory,Christ Church,Barbados.
WATSON, Doreen J.....B.H.S.3.....Macdonald College, Que.....Ste A. 806, 830
5801 Cote St.Luc Road, Montreal.
WATSON, Gerald J.....B.Com.2.....230 Carlyle Ave.,Town of Mount Royal....AT 2363
WATSON, Hazel J.....B.Sc.2.....Royal Victoria College, Que.....MA 9176
Carcross, Yukon Territory.
WATSON, John H.....B.A.3.....Douglas Hall, Montreal.....BE 2885
Melbourne, Que.
WATT, Alexander C.....B.Sc.2.....
157 Cowie St., Granby, Que.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

WATT, Robert Noble	B.Com.3	626 Sydenham Ave., Westmount	WE 4198
WEATHERILL, M.Eliz	B.A.3	3575 Northcliffe Ave., Montreal	DE 9575
		190 Foster Ave., Belleville, Ont.	
WEAVER, Alan C.Q.	B.Eng.4	57 Beverly Ave., Town of Mount Royal.	
WEBB, Aileen L.	Med.3	3440 Shuter St., Montreal.	
		18 Roble Court, Berkeley, Calif.	
WEBB, Eugene M.	Med.3	3440 Shuter St., Montreal.	
		18 Roble Court, Berkeley, Calif.	
WEBB, James L.	B.Sc.1	1122 Sherbrooke St.W., Montreal.	
		56 Larch St., Halifax, N.S.	
WEBB, Margaret A.	Library Sch.	5257 Queen Mary Road, N.D.G.	WA 3177
WEBB, Walter E.	B.Eng.1	5910 Notre Dame St.E., Montreal.	CL 6553
WEBSTER, David R.	B.Eng.3	3437 Peel St., Montreal	PL 1674
		P.O. Box 600, Yarmouth, N.S.	
WEBSTER, William H.	B.Sc.3	762 Sherbrooke St.W., Montreal.	
		278 Charlotte St., Ottawa, Ont.	
WEEKS, B. Lloyd.	B.Eng.1	495 Prince Arthur St.W., Montreal	PL 3537
		138 Hillsboro St. Charlottetown, P.E.I.	
WEIL, Hans U.	B.Com.2	3511 Lorne Ave., Montreal	BE 3694
WEIN, Harry G.	B.Eng.4	1621 Ducharme Ave., Montreal	CA 3830
WEINER, Mervyn L.	B.Com.4	1120 Lajoie Ave., Montreal	DO 8497
WEININGER, Joseph L.	B.Sc.2	3609 University St., Montreal	LA 6307
		590 West End Ave., New York.	
WEINSTEIN, Joseph.	B.Sc.1	5412 Esplanade Ave., Montreal.	
WEINSTEIN, Saul A.	B.Eng.3	3581 Durocher St.W., Montreal	HA 7778
		534 St.Johns Ave., Winnipeg, Man.	
WEINTRAUB, Joseph M.	B.Eng.2	136 Villeneuve Ave.W., Montreal	HA 7554
WEINTRAUB, Sarah.	Teachers'(Int.)	5240 Esplande Ave., Montreal	DO 3445
WEINTHAL, Halina.	B.A.2	2376 Melrose Ave., N.D.G.	WA 5948
WEIR, Donald M.	B.Sc.3	3581 University St., Montreal	MA 3842
		318 Cooper St., Ottawa, Ont.	
WEISZ, Paul.	B.Sc.3	3422 Stanley St., Montreal	HA 3840
WELLER, William F.	Med.1	3417 University St., Montreal	PL 2406
		Smithfield, Penna.	
WELLS, Alfred A.	B.Sc.1	3907 Claude St., Verdun, Que.	FI 3427
WELLS, Edith D.	B.Sc.2	Royal Victoria College, Que.	MA 9176
		26 Brookland St., Sydney, N.S.	
WELLWOOD, Arnold A.	Grad.Sch.	Apt.15, 1470 Bernard Ave.,Outremont	CA 3622
		Hantsport, N.S.	
WELT, Isaac D.	B.Sc.3	3971 City Hall Ave., Montreal.	
WERMENLINGER, Daniel.	B.Eng.1	4473 LaSalle Blvd., Verdun	YO 5568
WEST, Roxroy O.O.	B.Sc.2	3495 Hutchison St., Montreal	PL 5771
		140 Mon Repos St.,San Fernando,Trinidad,B.W.I.	
WESTON, Elizabeth	Grad.Sch. Arts P.	2642 Charland Avenue, Montreal.	
WEXLER, Adolphe I.	B.Com.2	Apt.6,4611 Hutchison St., Montreal	DO 8458
WEYMAN, Stephen H.	Med.1	3483 Peel St., Montreal	LA 0643
		59 Lansdowne Ave., Fredericton, N.B.	
WHALEN, Winifred L.M.	B.Sc.2	Royal Victoria College, Que.	MA 9176
		380 St.Francis Xavier St.,Three Rivers,Que.	
WHARTON, Daphne.	B.A.2	38 Anwoth Road, Westmount	FI 6560
		39143 Chacon St., San Fernando, Trinidad.	
WHEATLEY, Patience	B.A.3	1572 McGregor St., Montreal	FI 9156
		The Chantry,Walton on Thames, Surrey, England.	
WHEATON, Charles P.	B.Eng.3	3619 University St., Montreal.	
		666 Main St., Moncton, N.B.	
WHEELER, James C.	B.A.1	456 Pine Ave.,Apt.7, Montreal	BE 3139
		114 Glenayr Rd., Toronto, Ont.	
WHITE, David.	B.Sc.2	424 Edward Charles Ave., Montreal	CR 1272
WHITE, H. Edward.	B.Eng.3	340 St. Joseph St., Lachine	Lach. 2237-W
WHITE, Katherine.	Arts P.	2368 Belgrave Ave., N.D.G.	EL 7118
WHITE, Margaret R.	B.A.2	2075 Lincoln Ave., Montreal	FI 0690
WHITE, William H.	Grad.Sch.	375 McKay St., Ottawa, Ont.	

NAME FACULTY AND YEAR ADDRESS TEL. NO.

Where two addresses are given, the second is the home address.

WHITE, W. J.....Theol.3.....3473 University St., Montreal.....MA 4902
WHITMAN, Joanne.....B.A.2.....Royal Victoria College, Montreal.....MA 9176
69 Elmwood Ave., Chatham, N.J.
WHITMORE, Jacqueline..Lib.Sch.....114 Dufferin Road, Hampstead, Que.....DE 1939
WHITTAKER, Charles G..B.A.4.....726 Lansdowne Ave., Westmount.....EL 1051
WHITTAKER, John F.....B.Eng.3.....3580 Durocher St., Montreal.....PL 7519
528 - 15th Ave., W., Calgary, Alta.
WHITTAKER, Maud A.....B.A.3.....3597 Jeanne Mance St., Montreal.....MA 2704
WHITTALL, Ralph L.....B.Sc.1.....516 Roslyn Ave., Westmount.....DE 3254
WICKLUND, Maurice M...Med.4.....3483 Peel St., Montreal.....LA 0643
Grenord, North Dakota.
WIENER, Fred.....Med.3.....1157 Van Horne Ave., Outremont.....CR 5542
WIGHTMAN, Vivian F....B.A.4.....4404 Beaconsfield Ave., N.D.G.....DE 9978
WILDI, Theodore.....B.Eng.3.....10405 St. Vital Boulevard, Montreal.....DU 2190
WILK, Martin.....B.Eng.2.....5990 Durocher Ave.Apt.9,Outremont.....CR 7798
WILKER, Margaret.....Grad.Nurses....1510 Mackay Street, Montreal.....FI 5911
537 5th Ave.N., Saskatoon, Sask.
WILKINSON, Ida.....Grad.School....United College, Winnipeg, Man.
WILKINSON, Peter F.F..B.A.1.....3078 Trafalgar Ave., Montreal.....FI 6241
WILKS, Arthur G.....B.Sc.1.....575 Roslyn Avenue, Montreal.....WA 8834
WILLIAMS, Harry L.....Grad.Sch.....629 Prince Arthur St.W., Montreal.....MA 0739
5 Kennon Place, London, Ont.
WILLIAMS, Ivor D.....Theol.3.....111-51st Avenue, Lachine, Que.....Lach. M-1636
WILLIAMS, John W.....B.Sc.3.....4563 Notre Dame St.E., Montreal.....CL 7986
WILLIAMS, Lloyd.....B.Eng.3.....486 Lansdowne Ave., Westmount.....DE 4807
WILLIAMS, Margaret S..B.Com.1.....Royal Victoria College, Montreal.....MA 9176
71 Hemlock Ave.,Shawinigan Falls, Que.
WILLIAMS, Wallace R...B.Sc.1.....3480 Durocher St., Montreal.....PL 0787
1043 Pakington St., Victoria, B.C.
WILLIAMSON, David F...B.Sc.1.....3 Hudson Ave., Westmount.....WE 1847
WILLIAMSON, John A....Med.3.....3462 St. Famille St., Montreal.....HA 1719
St. Stephen, N.B. Box 291.
WILLIAMSON, Margaret..B.Sc.1.....Royal Victoria College, Montreal.....MA 9176
Braerob Farm,Ste.Anne de Bellevue,Que.
WILLIS, Eileen M.....Grad.Nurses....772 Sherbrooke St.W., Montreal.....HA 6268
685 Beverley St., Winnipeg, Man.
WILLIS, George C.....B.Sc.2.....3445 Peel St., Montreal.....HA 9462
P.O. Box 1723, Shanghai, China.
WILLIS, R. Stewart....B.C.L.2.....Apt.14,5410 Cote St.Luc Road, Montreal..DE 2270
McGill Union, 690 Sherbrooke St.W.....LA 2244
WILLIS, Thomas A.....B.Sc.1.....1443 Galt Ave., Cote St.Paul.....FI 5872
WILNER, Saul.....Med.1.....5223 Jeanne Mance St., Montreal.....DO 9158
WILSON, Diana E.....B.A.1.....613 Belmont Ave., Montreal.....WE 6666
WILSON, A. Margaret...B.Sc.1.....Royal Victoria College, Montreal.....MA 9176
46 Crown St., Saint John, N.B.
WILSON, Doris.....B.Sc.1.....Royal Victoria College, Montreal.....MA 9176
42 Brington Rd., Brookline, Mass.
WILSON, Evelyn B.....B.H.S.3.....Macdonald College, Que.....Ste A. 806,
Box 134, Hudson, Que. 830
WILSON, Francis N.....Med.2.....3546 Shuter St., Montreal.....BE 0858
Redwood Estates, Calif.
WILSON, Kathleen M....Med.1.....Apt.23,331 Clarke Ave.,Westmount.....FI 5483
"Upover House",RR No.4,Victoria,B.C.
WILSON, Norma F.....B.A.1.....Royal Victoria College, Montreal.....MA 9176
Manor House, Rockcliffe, Ottawa, Ont.
WILSON, Reginald A....Theol.3.....3531 Lorne Ave., Montreal.....PL 3608
Vancouver, B.C.
WILSON, Ronald S.....B.Eng.4.....3480 Durocher St., Montreal.
30 Marlhurst Apts.,Winnipeg, Man.
WILSON, Stuart A.....B.Arch.5.....2282 Belgrave Ave., Montreal.....FI 8332
WILSON, T. Ross.....B.A.3.....6 Weredale Park, Westmount.....FI 9621
3 Champs Elysees Rd.,Port-of-Spain,Trinidad.
WILSON, Willard W.....Med.3.....481 Prince Arthur St.W., Montreal.....HA 5617
McNamee, N.B.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

Where two addresses are given, the second is the home address.

WINSER, Cedric A.	B.Com.2	3637 University St., Montreal Cowansville, Que.	MA 1824
WINTER, Edith M.	B.A.3	4048 Vendome Ave., N.D.G.	DE 7183
WINTER, Eric E.	B.Eng.2	3445 Peel St., Montreal Rices, St. Philip, Barbados, B.W.I.	HA 9462
WINTER, Gwyneth G.	B.A.3	Royal Victoria College, Montreal	MA 9176
WINTER, Helen A.	Grad.Sch.	4048 Vendome Ave., N.D.G.	DE 7183
WINTER, Kenton E.	B.A.3	4048 Vendome Ave., N.D.G.	DE 7183
WINTER, Samuel	B.Eng.1	5872 Hutchison St., Montreal	CR 7492
WISEMAN, Gdalyah	B.Sc.1	240 St. Joseph Blvd.W., Montreal	CR 3497
WISHART, Gerald A.	B.Eng.4	Apt.23, 4250 Marcil Ave., Montreal	EL 5527
WOLEVER, Frank D.	B.Eng.4	536 Prince Albert Ave., Westmount	DE 5635
WOLFSON, Edith R.	Arts P.	Apt.3, 5123 Sherbrooke St.W.,Montreal 107 Park St., Sydney, N.S.	DE 6981
WOLTER, Shirley E.	Phys.Ed.1	Royal Victoria College, Montreal Lennoxville, Que.	MA 9176
WOLVIN, Donald F.	B.Sc.1	1321 Sherbrooke St.W., Montreal	LA 8503
WONFOR, John S.	B.Sc.4	160 Hallowell Ave., Westmount	FI 3030
WONFOR, Herbert W.	B.Sc.1	160 Hallowell Ave., Westmount	FI 3030
WONG, George G.	B.Eng.4	1090 Chenneville St., Montreal	LA 2953
WONG, Howard R.	B.Eng.1	3599 Marlowe Ave., Montreal	EL 2920
WONG, P. Huey	B.Eng.P.	3463 Shuter St., Montreal 73 Lagauchetiere St.W.,Montreal	MA 9061 LA 3594
WONG, William F.	B.Sc.1	200 Atwater Ave., Montreal.	
WOO, Gerald	B.Sc.1	1236 St. Urbain St., Montreal	MA 9849
WOOD, Donald C.	B.Eng.1	25 Holton Ave., Westmount	FI 5136
WOOD, Enid M.	B.H.S.2	Macdonald College, Que. St.Luke's Rectory, Waterloo, Que.	Ste A. 806, 830
WOOD, Harold G.	Med.1	Douglas Hall, Montreal Twillingate, Nfld.	BE 2885
WOOD, Phyllis	B.Sc.1	248 Kensington Ave., Westmount	WE 1443
WOODCOCK, Harold W.	Med.2	Douglas Hall, Montreal 138 Laurel St., Fairhaven, Mass.	BE 2885
WOODCOCK, John G.	B.Eng.2	4414 Mayfair Ave., Montreal	WA 2308
WOODHEAD, William W.	B.Eng.2	241 Ballantyne Ave., Montreal	DE 5213
WOODS, Jack Myer	B.Eng.4	5940 Durocher Ave.,Apt.8, Outremont	LA 4441
WOODS, James P.	Agr.1	Macdonald College, Que. 4151 Hingston Ave., Montreal..	Ste A. 407, 810
WOODWARD, John D.	B.Sc.1	259 Broadway Ave., Lachine	Zone 8-792
WOODWARD, Shirley	Music	Ste.Anne's Military Hospital Ste.Anne de Bellevue, Que. 419-5th St.E., Owen Sound, Ont.	Ste A. 402
WOOLAVER, Frank N.	Agr.1	Macdonald College, Que. Newport, Hants Co., N.S.	Ste A. 407, 810
WOOLINGTON, Sam S.	Med.4	3524 Lorne Ave., Montreal 4430 Myrtle Ave., Long Beach, Calif.	LA 1548
WOOLLEY, Marjorie E.	B.A.2	39 Drayton Road, Pointe Claire	Pt.Claire 850
WOOLNER, Evelyn F.	Grad.Sch.	3703 Jeanne Mance St., Montreal North Rustico, P.E.I.	MA 8967
WOOLSEY, Lloyd D.	Grad.Sch.	Macdonald College, Que. Parkview Apts.,1 Mack St.,Kingston, Ont.	Ste A. 407, 810
WOREMBRAND, Carl H.	B.Eng.3	130 Prince Arthur St.W.,Apt.11,Montreal.	
WRIGHT, Beatrice M.	B.A.4	4236 Harvard Ave., N.D.G.	DE 9795
WRIGHT, Gordon W.	B.Eng.4	31 Brock Ave.S., Montreal West	DE 8291
WRIGHT, Grace H.	B.A.3	517 Roslyn Ave., Westmount	DE 6319
WRIGHT, Lloyd J.	B.Sc.4	5435 Angers St., Montreal	FI 6712
WULFSON, Clare	Music P.	4647 Hutchison St., Montreal	CR 4012
WYATT, E.Rix S.	Med.2	545 Pine Ave.W., Montreal Heart's Content, Newfoundland.	MA 1545
WYATT, William J.	Med.1	404 Manning Ave., Verdun, Que.	YO 1958
WYMAN, Joan D.	B.Sc.1	4637 Sherbrooke St.W., Westmount	WI 2780

NAME FACULTY AND YEAR ADDRESS TEL. NO.

Where two addresses are given, the second is the home address.

YACK, Jean E.....B.A.1.....4452 Oxford Ave., N.D.G.....WA 2579
YAFFE, Leo.....Grad.Sch.....548 Prince Arthur St.W., Montreal.....MA 7845
Suite 7,Baltic Apts.,Winnipeg, Man.
YATES, Kathleen M.H....B.H.S.4.....Macdonald College, Que.....Ste A. 806, 830
Lloydminster, Sask.
YATES, Lawrence E.....Theol.3.....3485 McTavish St., Montreal.....PL 1649
2341 Cuvillier St.,Montreal.
YEOMAN, Frank R.....Arch.3.....1592 Ducharme Ave., Montreal.....CA 6586
YORKE-SLADER,Geoffrey..B.Eng.2.....3482 Hutchison St., Montreal.....MA 3380
Cottesloe, Mandeville, Jamaica,B.W.I.
YOSIPOVITCH, Joseph....B.Eng.3.....661 Querbes Ave.Apt.6, Outremont.....CA 9381
YOST, M. Jean.....B.Sc.3.....3429 St.Famille St.,Montreal.....PL 6807
Unity, Sask.
YOUNG, Harold R.....B.Eng.4.....
Sussex, N.B.
YOUNG, M.H. Vincent....Med.2.....3581 University St., Montreal.....MA 3842
283 MacLaren St., Ottawa, Ont.
YUEN, Margaret.....B.Sc.3.....1715 Gouin Blvd. W., Montreal.....BY 2821
YVASKEVICIUS, Ann.....Music.....361 Marianne St.E., Montreal.
YVASKEVICIUS, Irene....Music.....361 Marianne St.E., Montreal.

ZALKIND, Louis.....B.Eng.2.....4300 St.Urbain St.Apt.4, Montreal.....BE 1409
ZBIERANSKA, Krystyna A.Lib.Sch.....3432 Drummond St., Montreal.....LA 8826
ZIMMERMAN, Jack.....B.Sc.3.....4853 Park Avenue, Montreal.....CR 0070
ZIOLKOWSKA, Bozena B.K.B.Sc.2.....5670 Decelles Ave.Apt.9, Montreal.
Dantzig, Poland.
ZION, Nicholas J.....B.Sc.2.....1176 Sherbrooke St.W., Montreal.....MA 0650
55 Perreault St., Rouyn, Que.
ZUKERMAN, Abraham.....Grad.Sch.....5270 St.Lawrence Blvd.,Montreal.....CA 0853
ZUPERKO,Stephanie M....B.A.4.....1202 Foch Ave.,Crawford Park, Verdun..YO 1807
ZWANETZ, Harold.....B.Eng.1.....5572 Waverly St., Montreal.....DO 1058
ZWEIG, David N.....Arts P.....Apt.3,3543 St.Famille St.,Montreal....HA 0400
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